

The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

AUGUST 25 1956

The advertisement features several product boxes for Cussons Gift Sets, surrounded by illustrations of birds and foliage. The products include:

- 5630 Lilac Blossom:** Talcum Powder, 2 Bath Soaps.
- 5606 Imperial Leather:** Liquid Brilliantine, After Shave Lotion, Shaving Cream.
- 5628 Apple Blossom:** Talcum Powder, 2 Bath Soaps.
- 5636 Blue Hyacinth:** Talcum Powder, Bath Soap, 2 Bath Cubes.
- 5622 Imperial Leather:** Talcum Powder, 2 Toilet Soaps, 3 Bath Cubes.

The central text reads "Display Cussons Gift Sets". The background is decorated with illustrations of birds (a large bird with yellow and black wings, a small blue and white bird, a small red and black bird, and a small blue bird) and various flowers and leaves.

CUSSONS SONS & CO. LTD, KERSAL VALE, MANCHESTER 7

A New Approach

to such conditions as



**CHOLECYSTITIS
DYSPEPSIA & HYPERCHLORHYDRIA
GASTRIC & DUODENAL ULCERS
POST-GASTRECTOMY SYNDROMES**



SECRETIN MEBIOL

The Duodenal Hormone
purified, standardised and
physiologically controlled
for stimulating

PANCREATIC & BILIARY SECRETION

SECRETIN, now available on a commercial scale, has been successfully introduced to the Medical Profession.

We will be pleased to supply full details of SECRETIN and to accept orders either direct or through your usual wholesaler.

MEDICO-BIOLOGICAL LABORATORIES LTD

CARGREEN ROAD, SOUTH NORWOOD, LONDON, S.E.25



By Appointment
Toilet Soap Makers to
H.M. Queen Elizabeth II.



By Appointment Toilet
Soap Makers to H. M. Queen
Elizabeth the Queen Mother.

ROBERTS WINDSOR

are holding trade shows of their

* * * CHRISTMAS LINES * * *

at

The Grand Hotel
BIRMINGHAM
for 4 days from September 10

The Royal Hotel
BRISTOL
for 4 days from August 27

The Royal Hotel
CARDIFF
for 4 days from September 17

St. Enoch's Hotel
GLASGOW
for 4 days from September 3

The Queen's Hotel
LEEDS
for 4 days from August 27

The Queen's Hotel
MANCHESTER
for 5 days from September 3

The Turk's Head Hotel
NEWCASTLE
for 4 days from September 3

The County Hotel
NOTTINGHAM
for 4 days from September 10

and cordially
invite you to attend
whichever is most
convenient



CARNEGIES

Manufacturers of Fine Chemicals

ADRENALINE
ALOIN
AMINOPHYLLINE
ATROPINE & SALTS
BISMUTH SALTS
CAFFEINE & SALTS
CINCHONA FEBRIFUGE
CITRATES
DITHRANOL
EMETINE & SALTS
EPHEDRINE & SALTS
HOMATROPINE & SALTS
HYOSCINE & SALTS



ISONIAZIDE
LITHIUM SALTS
METHOIN
PAS
PIPERAZINE & SALTS
QUININE & SALTS
QUINIDINE & SALTS
RESERPINE
SANTONIN
STRYCHNINE & SALTS
SULPHA DRUGS
THEOBROMINE & SALTS
TOTAQUINA

'Tree of Life' Products

The above mentioned products are a selection taken from our list of products a copy of which will be gladly sent on request.

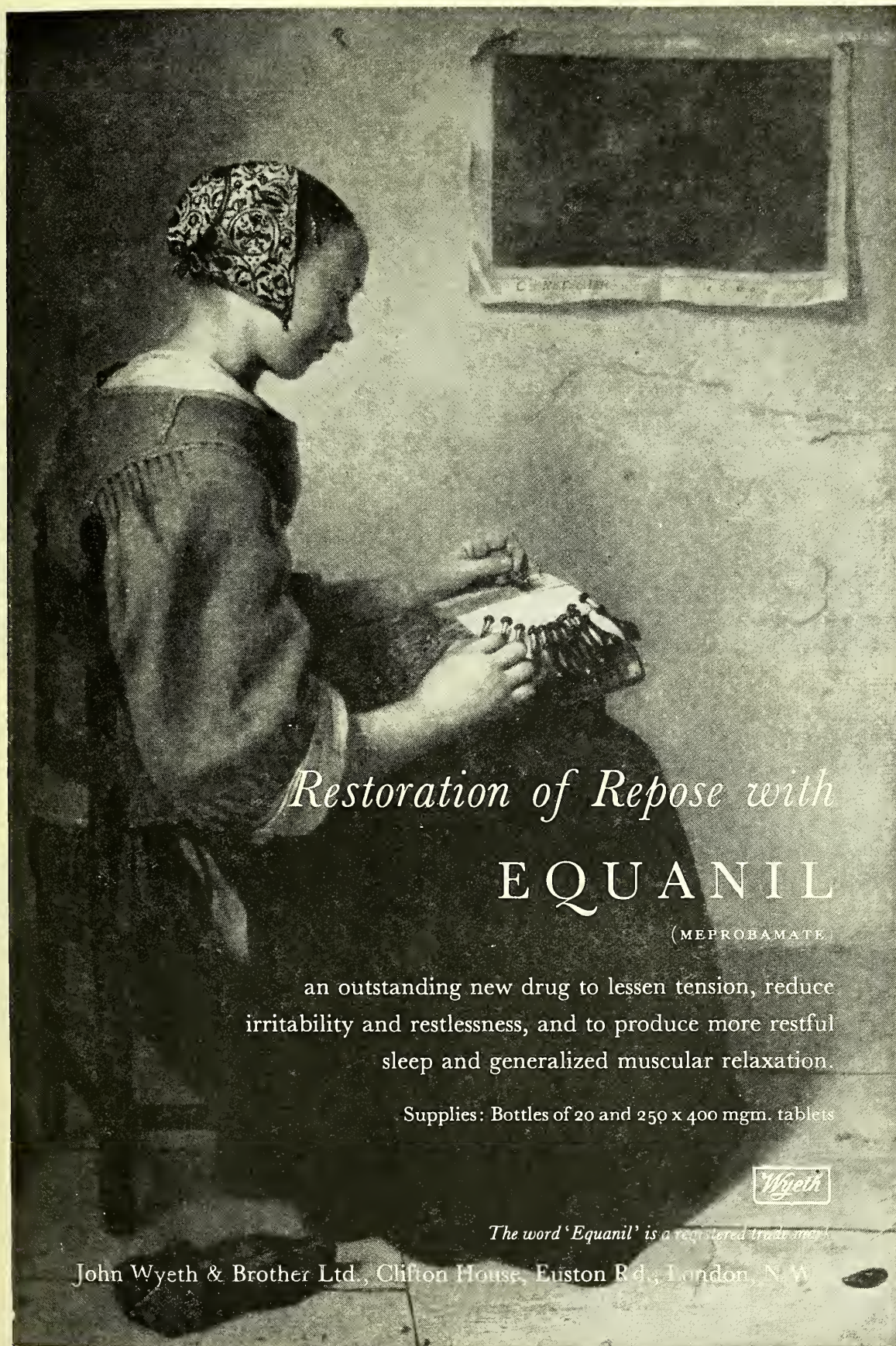
In addition we can offer certain of these products in tablet and ampoule form.

CARNEGIES OF WELWYN LTD

Telegrams : 'CARNEGIES, WELWYN GARDEN CITY TELEX'

Telephone : WELWYN GARDEN 5001 (10 lines)

Telex : LONDON 8676




Restoration of Repose with

EQUANIL

(MEPROBAMATE)

an outstanding new drug to lessen tension, reduce irritability and restlessness, and to produce more restful sleep and generalized muscular relaxation.

Supplies: Bottles of 20 and 250 x 400 mgm. tablets



The word 'Equanil' is a registered trade mark.

John Wyeth & Brother Ltd., Clifton House, Euston Rd., London, N.W.

Take your pick



... of the "SKYLON" polythene stock moulds. Plain or printed, natural or coloured. Customer specials too.

FIBRENYLE
L I M I T E D

157 DUKES ROAD, LONDON, W.3
ACORN 5073-4



Be prepared
for
Summer
Sunshine!

Esoban De Luxe Cream of Calamine will once again be in great demand this summer for the ease and comfort it brings to sufferers from sunburn, skin irritation, chafing and eczema. Build up your stocks now.

ESOBAN

De Luxe

CREAM OF CALAMINE

LARGE SIZE
3/- (inc. tax)

HANDY PACK
1/7 (inc. tax)

Special Seasonal terms
33½% discount and bonus 13 to the doz.
PLUS

5% on £5 and 10% on £10 direct orders in return for 14-day counter and window display.



*SEND FOR ATTRACTIVE SHOW MATERIAL
SOUTHON LABORATORIES LTD
88, UPPER RICHMOND ROAD, LONDON, S.W.15

YOUR CLIENTS WILL THANK YOU

for advising the use of



HAIR LOTION

A preparation specially compounded by a Trichologist for falling hair. Relaxed follicles quickly return to normal, and hold the hairs for the full duration of their life. Ask your wholesaler for details or write now to—

D.R. PRODUCTS

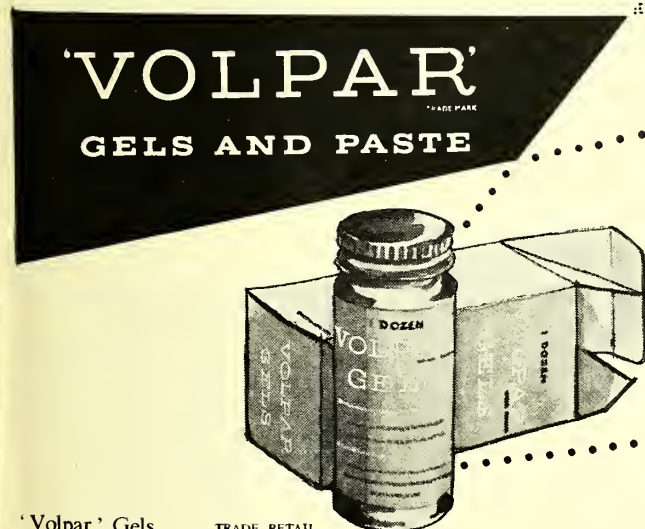
79 HARBORNE ROAD, BIRMINGHAM, 15

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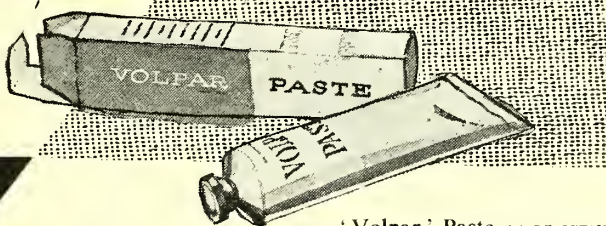
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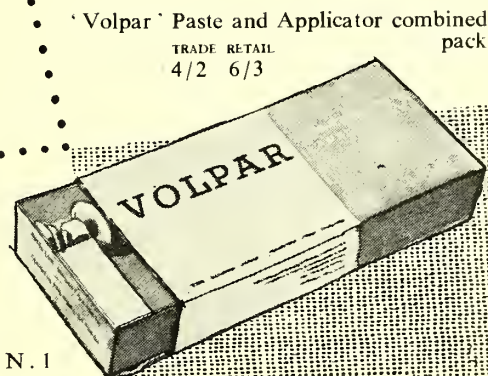
An aesthetically acceptable contraceptive



'Volpar' Gels TRADE RETAIL
Bottle of one dozen 1/10 2/9



'Volpar' Paste TRADE RETAIL
Collapsible tube 1/10 2/9



'Volpar' Paste and Applicator combined pack
TRADE RETAIL
4/2 6/3

THE BRITISH DRUG HOUSES LTD., LONDON N.1

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THE Advantages



“Disprin”

The advantages of Disprin as an analgesic are:—

- 1 Disprin is soluble
- 2 Disprin is substantially neutral

Disprin is therefore quick-acting and far less likely than ordinary aspirin to upset the stomach.

Week after week these advantages are made known to millions of readers of the national daily papers, the national Sunday papers, *Woman*,

Woman's Own, *Woman's Weekly*, and *Woman's Sunday Mirror*.

Week after week more people ask for "Disprin" for the relief of headache, neuralgia, sciatica, colds, rheumatism and kindred ailments.

RETAIL PRICES

(inc. P.T.)

50-tablet bottle 3/3 26-tablet bottle 1/11½
8-tablet foil 9d.

TRADE PRICES

(exc. P.T.)

50-tablet bottle 23/- doz. 26-tablet bottle 13/10 doz.
8-tablet foil 5/2 doz.

RECKITT & COLMAN LTD. HULL AND LONDON (PHARMACEUTICAL DEPT., HULL)

DENNY'S**NYLON
GARMENTS****NYLON
WHITE COATS**

Suitable for all
purposes. From
stock 34" to 46"
Chest



are tailored for

**EFFICIENCY
CLEANLINESS
SMARTNESS**

Smart uniforms and clean
appearances can double any
store's business. For a good
turnout suggests a well-run and
clean concern. This instills con-
fidence in customers — essential
when dealing with medical goods.

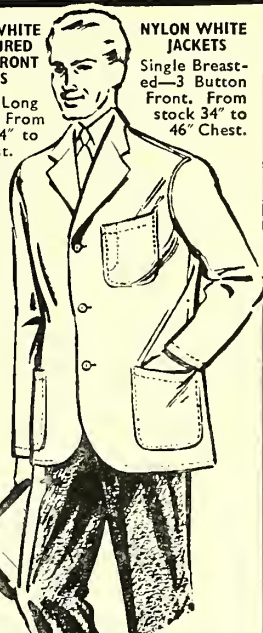
*Look no farther! Every type
of staff uniform and clothing
is obtainable from Denny's.
Write for their fully-
illustrated booklet.*

**NYLON WHITE
OR COLOURED
BUTTON FRONT
OVERALLS**

Half or Long
Sleeves. From
stock 34" to
44" Bust.

**NYLON WHITE
JACKETS**

Single Breast-
ed—3 Button
Front. From
stock 34" to
46" Chest.

**P. DENNY**

OF SOHO & CO. LTD.

39 OLD COMPTON STREET, SOHO,
LONDON, W.1

Telephone: GERrard 1654/5

Please send me illustrated Brochure and Price List
covering full range of Denny overalls.

NAME

ADDRESS

.....(C & D)

You'll be busy with

BRONTAN

REGD. TRADE MARK

SUN-TAN CREAM

THIS SUMMER



NON-GREASY BRONTAN tans fast and sells fast, and each tube
will show YOU a healthy profit. Now's the time to order for your share
of this brisk business which will be continual throughout the summer.

Trade Price 10/3 per dozen
(P. Tax 9/2 $\frac{3}{4}$)

Retail 2/1 $\frac{1}{2}$ per tube
(inc. Tax)

Bonus for display, 13 to the dozen on parcels of not less than 3 dozen

JOHN BELL, HILLS & LUCAS LTD., OXFORD WORKS, WORSLEY BRIDGE RD., S.E.26

*La Vieille au Chapelet*

*Reproduced by courtesy of the
Trustees, the National Gallery, London.*

In 1839

ON JANUARY 19th, PAUL CÉZANNE WAS BORN. His father, Louis-Auguste Cézanne, a banker of Aix-en-Provence, was a strict man who did not approve at all of his son's intention to embrace the rather precarious profession of a painter. Nevertheless he allowed his son to study at the art school in Aix.

Finally, in 1861, Paul Cézanne gained his father's permission to visit Paris where he devoted himself entirely to painting.

For years this restless, incalculable man received little recognition, even the pictures he submitted to the impressionist exhibitions of 1874 and 1877 in Paris were rejected. In fact his activity remained unnoticed until the great comprehensive exhibition organised in 1895 by Ambroise Vollard.

Today Cézanne's pictures, on the rare occasions they enter the market, change hands for enormous sums. The "Old Woman with Rosary" illustrated above and considered by many to be the artist's masterpiece was recently purchased by the National Gallery for over £30,000.

1839 also marks the foundation of Arthur H. Cox & Co. Ltd. In the manufacture and presentation of Tablets and other pharmaceuticals there exists an art, and it is one that flourishes in Brighton, different from Cézanne's it is true but an art none the less.

ARTHUR H. COX & CO. LTD., BRIGHTON, ENGLAND

One of the world's foremost tablet makers.



No. 5
of a
New Series

PRESENTED

BY

**ARTHUR H. COX
& CO. LTD**



and now—
FINGER-TIP

for the beauty counter

DISPENSERS



Aerosol dispensers make their first appearance on the beauty counter! Adaptable for all liquid beauty products which can be applied as a fine spray, the aerosol dispenser operates immediately at the touch of a finger. Attractive eye-catching designs and full-colour printing by Metal Box will make them outstanding in any display. A range of gay, clip-on caps can be provided.

Metal Box maintains a pilot filling plant at its Research Laboratories and a specialised research staff whose services are available to any manufacturer who wishes to investigate the suitability of an aerosol container for his own products.



MB 4064



THE METAL BOX COMPANY LIMITED

Metal Containers · Paper Products · Flexible Packages · Plastic Films and Laminates

The Langham · Portland Place · London W.1.



SHE'S IN THE NEWS. She's selling 'Alkathene' houseware for you in the national women's magazines. Things made in lovely light, bright 'Alkathene' are never hard to sell! You only have to sell one article made from 'Alkathene' to a housewife — and she'll come back for more!

I.C.I. do not themselves manufacture houseware from 'Alkathene'. All enquiries for individual articles should be addressed to the manufacturers through the usual trade channels.

She's your sales girl — for **'ALKATHENE'**

HELP YOURSELF!

'Alkathene' houseware is receiving a lot of publicity in the national women's magazines. All these advertisements will feature the 'Alkathene' label, and this will ensure that the housewife will ask for 'Alkathene'. The full

weight of all this advertising is behind *your* sales drive. In addition, striking and attractive display material may be obtained on request from your normal suppliers. Why not organise your own 'Alkathene' Week with special window and interior displays? That is the way to gain customers and profit from the 'Alkathene' National Campaign!



LOOK FOR THIS LABEL

Articles bearing this label are made from 'Alkathene', the sign of the highest quality.

'ALKATHENE'

THE I.C.I. BRAND OF POLYTHENE

* 'Alkathene' is the registered trade mark for the polythene made by I.C.I.



IMPERIAL CHEMICAL INDUSTRIES LIMITED • LONDON • S.W.1

AH12/T/1

In homes all over Britain

'Savlon' Liquid is gaining wide acceptance as a home antiseptic, and it will inevitably continue to find more and more users. Containing two of the most powerful and safest of modern antiseptics—'Hibitane' and 'Cetavlon'—'Savlon' cleans and disinfects at one and the same time. Its unparalleled activity against bacteria, together with its safety and pleasantness in use, will assure the future of this new home antiseptic.



Large advertisements will appear in these national newspapers and magazines during September, October and November. Showcards and window display material are available on request.



Retail price 2/9d. (inc. tax)

A  PRODUCT

IMPERIAL CHEMICAL
(PHARMACEUTICALS) LIMITED
FULSHAW HALL - WILMSLOW - CHESHIRE



A subsidiary company of Imperial
Chemical Industries Limited

Ph.667/T



A NEW SKF PRODUCT

Cynomel

for metabolic insufficiency

'Cynomel' is a new thyroid hormone (L-triiodothyronine) that acts at cellular level, producing an onset of effect or a return to pre-treatment status within a few days. 'Cynomel' opens up a new field of treatment among that large group of patients suffering from metabolic insufficiency. It is available in tablets of 5 μ g. and 25 μ g. in bottles of 100 and 1000.

TRADE PRICE	PURCHASE TAX	RETAIL PRICE
5 μ g. 100s 52/8 per doz. 1000s 35/- each	15/10 per dozen 10/6 each	7/11 each
25 μ g. 100s 78/8 per doz. 1000s 52/6 each	23/7 per dozen 15/9 each	11/10 each

Menley & James, Limited, Coldharbour Lane, London S.E.5 for Smith Kline & French

'Cynomel' is a trade mark

SUPPOSITORIES

FOR DISPENSING PURPOSES

THE VERY EASILY REMOVED LABEL, LEAVES
AN ELEGANT PACKAGE BEARING
NO PRINTING WHATSOEVER

Supplies can be obtained
through most wholesalers

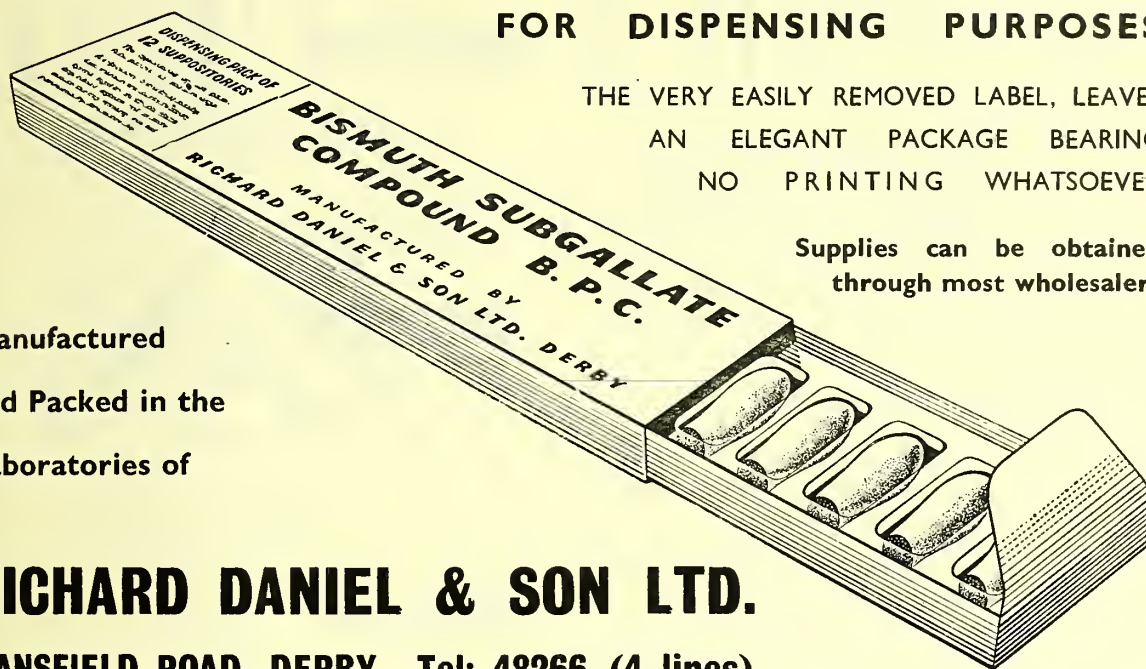
Manufactured
and Packed in the
Laboratories of

RICHARD DANIEL & SON LTD.

MANSFIELD ROAD, DERBY. Tel: 48266 (4 lines)

And at GROSVENOR STREET, ASHTON-U-LYNE.

Tel: 2816 (3 lines)



MILLIONS OF WOMEN

*see Evan Williams advertising . . .
. . . make sure they see*

EVAN WILLIAMS

Shampoos on your counter

Your customers see
EVAN WILLIAMS
advertising in
all these journals

DAILY MIRROR · DAILY SKETCH · WOMAN'S SUNDAY MIRROR
WOMAN · WOMAN'S OWN · WOMAN'S WEEKLY · FEMININE
SIX · LUCKY STAR · WOMAN'S ILLUSTRATED · PICTUREGOER
HOME NOTES · HOME CHAT · WOMAN & HOME · MY HOME
TRUE ROMANCES · ETC.

EVAN WILLIAMS CO. LTD · AINTREE ROAD · PERIVALE · MIDDX

JARVIE'S Quinine

JARVIE'S QUININE is well known because behind its manufacture a great deal of highly specialized work has been carried out under most modern conditions. The pure clear water of Scottish Lochs is used solely in the crystallization of JARVIE'S QUININE SALTS.

It has been famous for more than half a century.

H. JARVIE & CO. LTD.

SCOTIA CHEMICAL WORKS

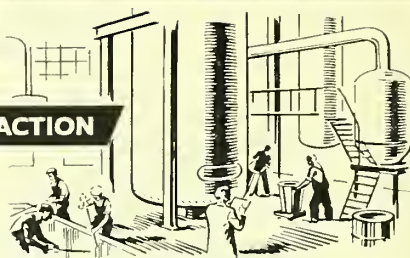
COATBRIDGE · SCOTLAND

Tel: Coatbridge 1584/5

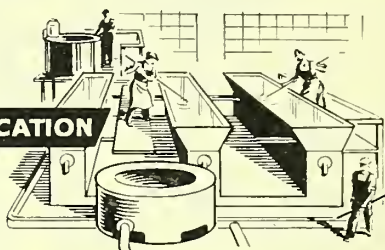
Grams: "TOILET" Coatbridge

ESTABLISHED 1892

EXTRACTION



PURIFICATION



TESTING



POLYANSYN[★]

(PITUITARY WHOLE GLAND SOLUTION 12½%)

for the Treatment of
MIGRAINE

Available in Boxes of
SIX 1 ml. AMPOULES
SIX 2 ml. AMPOULES

Reference: Migraine Clinic,
Putney Health Centre Report for 1955.

★ POLYANSYN is a
Registered Trade Mark

Write for literature to:

THE ARMOUR LABORATORIES

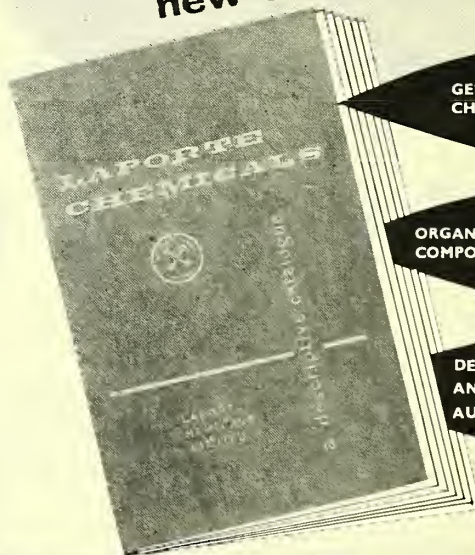
(Armour & Company Ltd.)

HAMPDEN PARK, EASTBOURNE, SUSSEX

Telephone: Hampden Park 740
Telegrams: Armolab, Eastbourne



may we send you our
new catalogue?



GENERAL
CHEMICALS

ORGANIC PEROXY
COMPOUNDS

DETERGENTS
AND
AUXILIARIES

LAPORTE

Please write for a copy to
Laporte Chemicals Ltd.,
Luton.

Virtually a new antibiotic

'Distaquaine' V

trade mark

brand

phenoxymethylpenicillin · penicillin V

Reliable ORAL Penicillin for all ages

"On present evidence it seems clear that penicillin V is more potent, dose for dose, than other oral preparations."

ANNOTATION, *Brit. med. J.*, I. 282. 1956

ACID-STABLE

'Distaquaine' V tablets, containing a new acid-stable penicillin (penicillin V), combine the convenience of oral penicillin with the reliability of treatment by injection.

CONVENIENT

The dosage in an adult for the treatment of an infection of average severity is six tablets daily at four-hourly intervals. Smaller doses of the scored tablets may be given (e.g., in jam) to children.

INEXPENSIVE

A bottle of 30 tablets (sufficient for five days' treatment in an adult) costs 6s. 10d. That is, the basic cost to the N.H.S. is less than 1s. 5d. per day.

PACKS: 60 mg. tablets.* Bottles of 30, 200 and 1,000.

**60 mg. equivalent to 100,000 units of penicillin G.*

THE DISTILLERS COMPANY (*Biochemicals*) LIMITED

FLEMING ROAD, SPEKE, LIVERPOOL 19. Tel: HUNTS CROSS 1271

Export enquiries: DEVONSHIRE HOUSE, PICCADILLY, LONDON, W.1. Tel: MAYFAIR 8867

PPH 3/56

*There is no secret
behind the
success of*

INECTO

Colour Creme

It is the best and most up-to-date
permanent hair-tinting preparation
on the market.

Complete and ready for use, with
enclosed picture directions. There
is a comprehensive range of
18 lovely natural shades from
Deep Black to Light Blonde.

*From your wholesaler
3/4 plus P.T.
8/- retail.*

*please ask for
shade indicator*



Enquiry Bureau: **INECTO HOUSE,**
27 DOVER STREET, LONDON, W.1.

HYDe Park 7541 (12 lines)

Plenty of people will be
coming into your shop coughing
and sneezing this autumn
sell them

BESORBON

REGD. TRADE MARK

MEDICINAL SNUFF

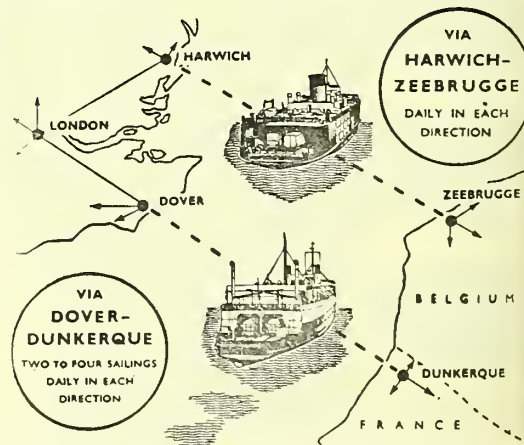
the proved remedy
for colds and catarrh

*Your wholesaler can supply you
promptly. Orders of one dozen
come in attractive counter
display box for*

MORE SALES — MORE PROFIT

KEMSALES LTD., 20 EASTCHEAP, LONDON, E.C.3


MERCHANDISE
MAY BE FORWARDED
IN THROUGH WAGONS
TO AND FROM ALL PARTS OF
GREAT BRITAIN & THE CONTINENT
BY TRAIN FERRY
SAVES TIME · PACKING · HANDLING



Full particulars from Continental Superintendent, Victoria Station London, S.W.1, for Dover route, and from Continental Traffic Manager, Liverpool St. Station, London, E.C.2, for Harwich route

BRITISH RAILWAYS

Bonus offer on all PENETROL products only!



13=12

thirteen to the dozen

**We pay
Purchase Tax
on the Bonus**

**RETAIL CHEMISTS
ONLY**

**This offer operates
during the month of
SEPTEMBER 1956 only**

TRADE TERMS

Retail

2/10	Penetrol Inhalant
4/5	Penetrol Inhalant
2/-	Penetrol Inhaler
2/-	Penetrol Drops
1/7	Penetrol Tablets 15's
4/-	Penetrol Tablets 50's
1/11	Penetrol Pastilles Tin
1/9	Penetrol Rub

Wholesale

20/-	per doz.
34/-	„ „
13/3	„ „
13/9	„ „
11/-	„ „
26/-	„ „
13/-	„ „
12/3	„ „

QUANTITY DISCOUNTS on all PENETROL lines

£2	(excl. P.T.)	.....	less	2½%
£3	( „ „ )	.....	less	5%
£5	( „ „ )	.....	less	7½%
£10	( „ „ )	.....	less	10%

(MOORLANDS and URILLAC may be included in Quantity Discount Terms)

PROFIT FROM PENETROL OFFER NOW



W. B. CARTWRIGHT LTD. • Rawdon • Leeds

Put your Net Sales into
TOP GEAR

SELL 'TANGO' HAIR NETS

All round value, reflected in an ever increasing demand assures steady, profitable business to all "Tango" stockists. Supplied 4 dozen on Round Cards and each in single envelopes on Hanging Cards.



Tango S.118. Pure Silk nets, packed 4 doz. on Round Cards.

Tango N.118. Small mesh Nylon nets, packed 4 doz on Round Cards.

Made by **BYARD MANUFACTURING CO., LTD., Nottingham**

POPULAR WITH YOUR CUSTOMERS
PROFITABLE FOR YOU



NUCTA

CREAM SHAMPOO

Delightfully perfumed and with exceptional lathering and cleansing power.

**IN 2 OZ. SIZE
FOR HOME USE**

Selling at 2/7½

(17/6 per doz. plus tax)

AVAILABLE ALSO
WITH
EGG AND LEMON

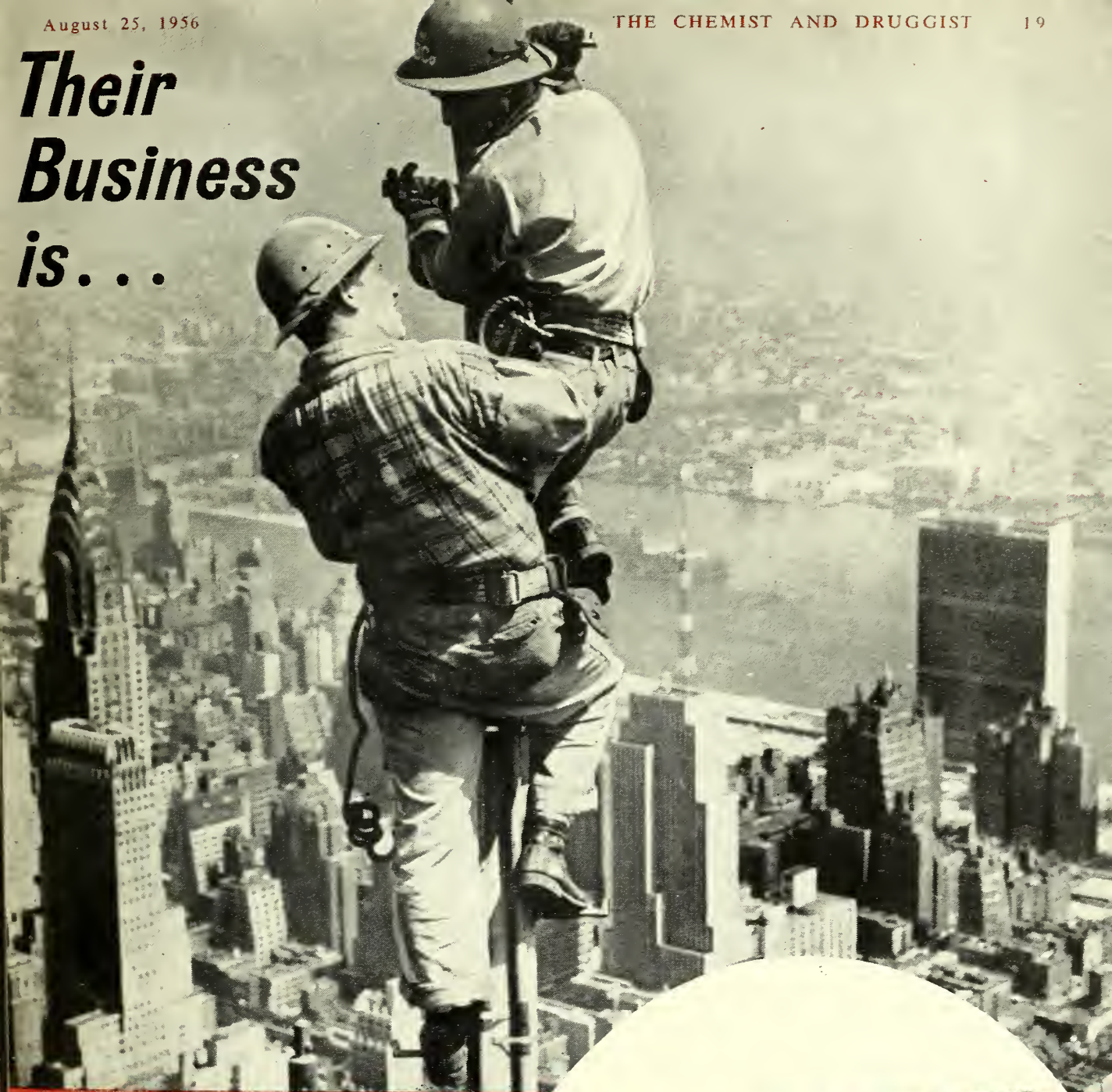
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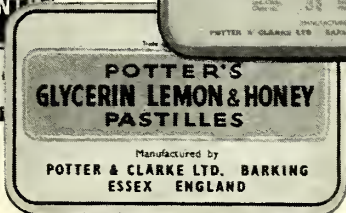
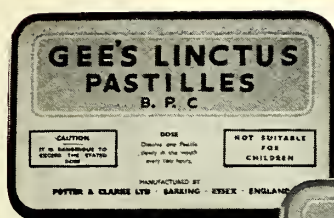
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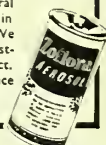
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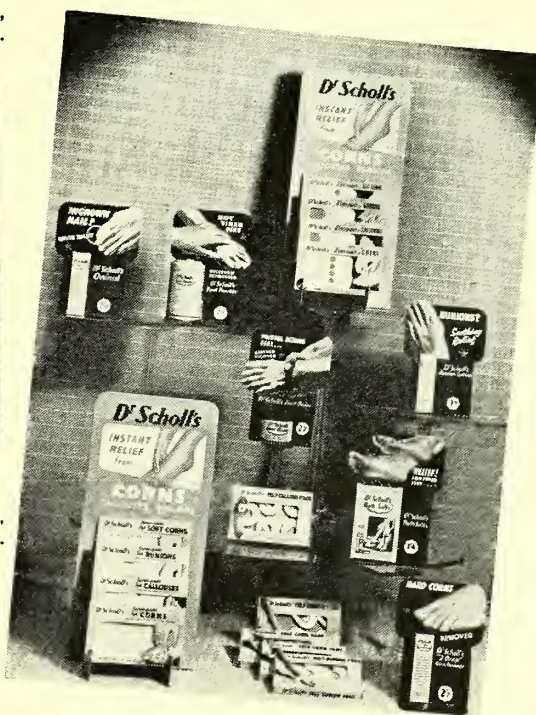
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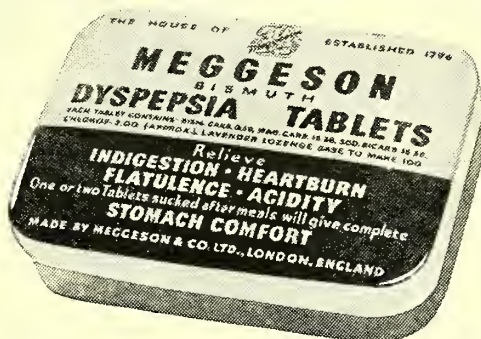
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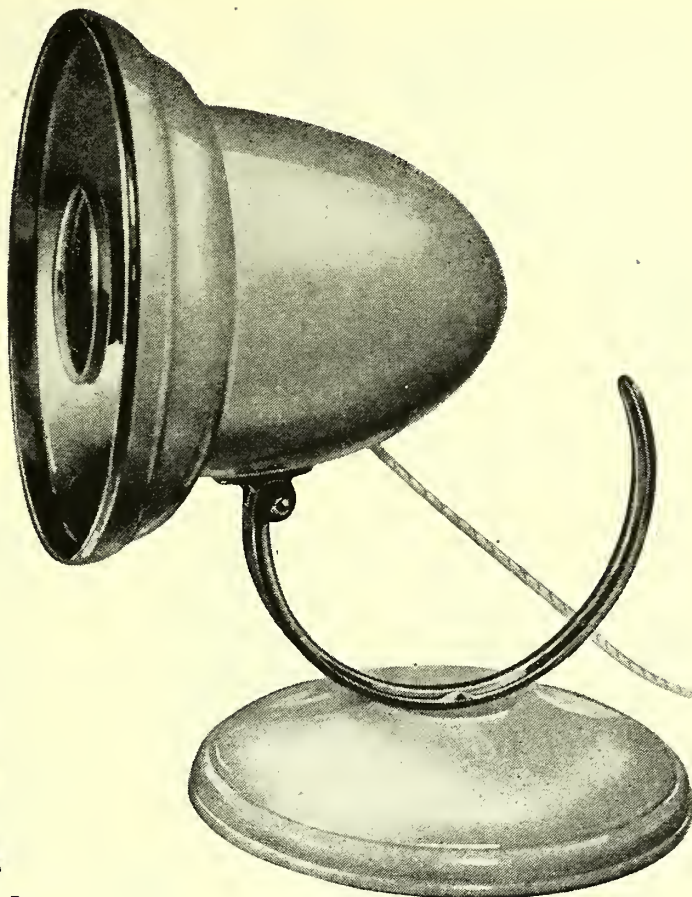
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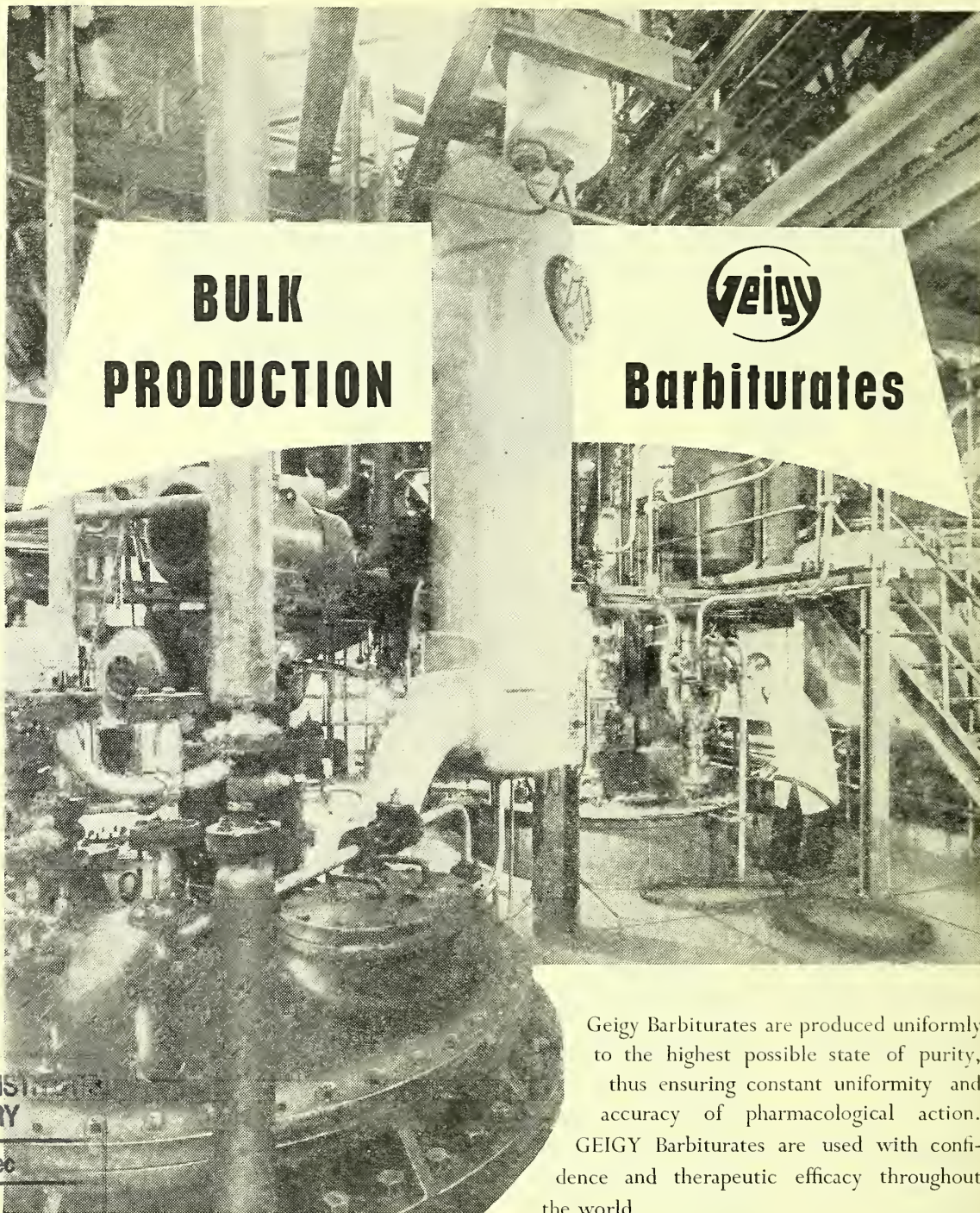
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• **DROXALIN** tablets are smooth, pleasant-tasting and break down easily in the mouth. They are, therefore, completely acceptable to the gastric patient. The tablets are individually and hygienically sealed in sets of six.

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Prescribed on Form E.C.10.

Manufactured by SCOTT & TURNER LIMITED
ANDREWS HOUSE, NEWCASTLE-ON-TYNE



THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

*Official organ of the Pharmaceutical Society of Ireland
and the Pharmaceutical Society of Northern Ireland*

Volume 166

August 25, 1956

No. 3992

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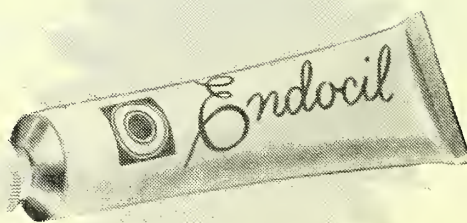
**WOMAN'S WEEKLY • EVERYWOMAN
VOGUE • WOMAN'S JOURNAL
HOUSEWIFE • WOMAN & BEAUTY**

ENDOCIL is available only from chemists.

Take advantage of the exceptional profit provided by the special display discount, 12½% on orders of 1 dozen or more tubes or jars.



Retail prices (including Purchase Tax).
Beauty Jar 13/7½
Handbag Tube 5/7½



The CHEMIST AND DRUGGIST

Volume 166

AUGUST 25, 1956

No. 3992

Differential Remuneration? COMMITTEE'S HINT TO MINISTRY

A SYSTEM of remuneration for chemist contractors varying according to the number of prescriptions dispensed has been suggested to the Ministry of Health by the Committee of Public Accounts.

In its sixth report for the Session 1955-56 published recently (see p. 187) the Committee recommends that in the negotiations on chemists' remuneration now proceeding, consideration should be given to the introduction of a system of remuneration which relates payment to the number of prescriptions dispensed.

Approved Names

SUPPLEMENTARY LIST

THE following supplementary list of approved names is issued by the British Pharmacopœia Commission:—

APPROVED NAME	OTHER NAMES
Acinitrazole	2 - Acetamido - 5 - nitrothiazole; Trichorad
Buclizine	1 - (4 - <i>tert</i> - Butylbenzyl) - 4 - (4 - chloro - α - phenylbenzyl) - piperazine; Longifene is the hydrochloride; Vibazine is the hydrochloride
Carbutamide	<i>N</i> - Butyl - <i>N'</i> - sulphanilylurea; Nadisan; Invenol; BZ.55
Chlorambucil	γ - <i>p</i> - Di - (2 - chloroethyl) aminophenylbutyric acid; Leukeran
Cyclizine	1 - Methyl - 4 - α - phenylbenzylpiperazine; Marzine is the hydrochloride
Cyclocoumarol	5' : 6'-Dihydro-6'-methoxy 6' - methyl - 4' - phenylpyrano - (3':2' - 3:4) coumarin; Cumopyran
Forminitrazole	2 - Formamido - 5 - nitrothiazole
Hyoscine methobromide	(-) - Hyoscine methobromide; scopolamine methobromide; methscopolamine bromide; Pamine
Methoxyphenamine	1 - <i>o</i> - Methoxyphenyl - 2-methylaminopropane; Orthoxine
Pipradrol	Diphenyl - (2 - piperidyl) methanol; Meratran is the hydrochloride
Sodium atrizoate	Sodium 3:5 - diacetamido-2:4:6 - tri - iodobenzoate; Hypaque
Spiramycin	An antibiotic produced by <i>Streptomyces ambifaciens</i> ; Rovamycin

Sulphan blue	Sodium salt of 4:4'-di(ethylamino) - 4'':6'' - disulpho-triphenylmethanol anhydride; blue VRS; disulphine blue VNS
Tolbutamide	<i>N</i> -Butyl- <i>N'</i> - toluene- <i>p</i> -sulphonylurea; Orinase; D.860
Zoxazolamine	2 - Amino - 5 - chlorobenzoxazole; Flexin

Export Cargo Control

STATEMENT ON LONDON POSITION

A JOINT statement on the control of export cargo in London has been issued by the London General Shipowners' Society and the London Chamber of Commerce. The statement points out that in an effort to overcome the congestion of export cargo in the London docks, more shipping companies have introduced the system of "staggered" receiving dates. Under that system, shipowners give a range of dates during which they can receive cargo for the various ports of discharge and the dates are fixed so that cargo for the later ports of discharge, is as far as possible received prior to cargo for the earlier ports of discharge. It is hoped that that will help to produce a more even flow of cargo into the dock area and facilitate the efficient loading of vessels. The statement urges

shippers to pay close attention to the opening and closing dates for receiving cargo for individual ports, as set out on the shipping cards of the various lines, and to ensure that cargo is ordered forward from suppliers so as to reach the ship as early as possible in the receiving period for the port. The road or rail transport offices concerned should also be told of the delivery instructions. It is emphasised that shippers should first book their cargo with the shipping company or broker before tendering for shipment.

Contaminated Bread

POISON ABSORBED FROM WAGON FLOOR

A RECENT outbreak of food poisoning in Wales was due to the victims having eaten bread made from flour contaminated with endrin insecticide. How the contamination occurred was described in the *British Medical Journal* of August 18. The endrin was absorbed from the floor of a railway wagon which had been used for conveying a consignment of endrin more than two months previously. From the consignment, which consisted of a solution of endrin in xylene, three gallons had leaked into the wagon during transit; when the same wagon was loaded with sacks of national flour more than two months later, two of the sacks absorbed endrin from the wagon floor. Both sacks were delivered to the same baker, and from the flour in one of them bread sufficiently contaminated to cause forty-nine cases of food poisoning was baked. Endrin was recovered from the contaminated bread to the extent of 150 parts per million. Endrin was also isolated from the other sack of flour, the empty sack, the floor of the bakery and the floor of the railway



GIFT FOR RESEARCH: Dr. D. Wheeler (managing director, the Wellcome Foundation, Ltd.) presents a cheque to Mr. P. F. McGrath (president, Pharmaceutical Society of Ireland) (seated) to finance research work in the Society's College on the medical potentialities of Irish native plants. Left to right, Dr. F. Wrigley (general sales manager (medical), the Wellcome Foundation, Ltd.); Mr. Walter Webb (manager, Dublin house of Burroughs Wellcome & Co.); Dr. Wheeler; Mr. James G. Coleman (the Society's registrar); Dr. Richard Timoney (dean of the College).

wagon. While in the bakery, the empty contaminated sack came into contact with dough manufactured from patent white flour; the dough was subsequently made into white rolls which, when consumed, accounted for a further ten cases of poisoning. The main symptoms of endrin poisoning observed were, in severe attacks, convulsions which were epileptiform in character, and in less acute cases, dizziness, weakness in the legs, abdominal discomfort, nausea and vomiting. Samples taken from the wagon floor and analysed on June 8, almost four months after the leakage, showed endrin still to be present in one section of the wagon to the extent of 116,000 parts per million.

Franco-British Scholar

PARIS DOCTORATE AWARD

A DOCTORATE of the University of Paris has been awarded to the first British Research Scholar to go to France under the auspices of the Franco-British Pharmaceutical Commission. He is Mr. K. H. Palmer, B.Pharm., M.Pharm., F.P.S., Nottingham. His research began in 1954 under Professor Paris (professor of materia medica of the faculty of pharmacy, Paris University); Mr. Palmer's subject was research on some African alkaloidal plants of the genus *Fagara* of the Natural Order Rutaceae. Notifying the award, Mr. Laurent (general secretary, *Ordre National des Pharmaciens*) wrote:—"It is a pleasure to me to tell you that the jury has awarded him the title of Doctorate of the University with the mention 'well done,' reproaching him only for having been too modest in expressing the result of his researches, seeing that he has discovered new alkaloids. I am truly happy that the choice of this first bursary should have fallen on this candidate. Everybody here is convinced that the most brilliant scientific career is open to him, and I believe, too, that Professor Paris is very proud of having received him at the outset of his career." Mr. Palmer has now been awarded a fellowship for one year in the department of organic chemistry in the pure chemistry division of the National Research Council of Canada, which he takes up in September. The Council of the Pharmaceutical Society has agreed to award another grant of £500 a year for two years beginning next year, for a research scholarship tenable in France, to be awarded to a British pharmacist recommended by the Franco-British Pharmaceutical Commission.

No Chemist Contractor

OXFORD TRADES COUNCIL COMPLAINT

OXFORD trades council is drawing the attention of Oxford city council to the absence at Marston of a pharmacy dispensing National Health Service prescriptions. The city council is being asked to bear that fact in mind when allocating shops on the new Northway estate. At the meeting of the trades council at which the subject was discussed, it was stated that there were two chemists in the Marston area, of whom had given up N.H.S. dispensing, and patients had to go to St. Clements

to have prescriptions dispensed. It was suggested that the city council should be asked to allocate one shop on the Northway estate to a dispensing chemist who was "willing to give a written undertaking" that he would do Health Service work. The trades council decided also to write to the Minister of Health expressing concern that such a situation could arise.

Scientific Education

INDUSTRIAL FUND NOW AT £3 MILLIONS

OFFERS of grants totalling £1,074,000 to sixty-seven schools have been made by the industrial fund for the advancement of scientific education in independent and direct grant schools. More than £3 millions has been subscribed to the fund since it was set up nine months ago. Applications for grants have been received from nearly 500 schools, the total amounting to some £10 millions. It is hoped that all the funds subscribed will have been distributed by the end of 1957. The fund target is £4 millions. The grants are being made in the first place for new or improved laboratories and classrooms for physics, chemistry, and mathematics. The fund provides between half and two-thirds of the total capital cost involved. The highest individual grant made so far is £27,000 to Dulwich College.

Analytical Chemistry

CONGRESS ON NEW DEVELOPMENTS

THE Society for Analytical Chemistry, through its Scottish Section, is organising a congress on Modern Analytical Chemistry in Industry, at St. Andrews University, June 24-28, 1957. Among subjects to be discussed are new analytical methods in the pharmaceutical industry. A section is being devoted to modern techniques and instrumentation covering automatic titration and the automatic recording of spectra in relation to industrial problems of analysis. An exhibition of apparatus is also planned. The congress secretary is Mr. J. A. Eggleston, Divisional Analyst, Boots Pure Drug Co., Ltd., Airdrie Works, Airdrie, Lanarks.

Nobel Chemistry Prize

WOMAN NOMINATED

DR. Dorothy M. Hodgkin (an x-ray crystallographer working in the laboratory of chemical crystallography, Oxford University) is a nominee for the 1956 Nobel prize for chemistry. Dr. Hodgkin was among those who successfully worked on the analysis of the molecular structure of vitamin B₁₂ (see C. & D., August 20, 1955, p. 201). No Englishwoman has yet received a Nobel prize, the value of which is about £11,000.

New Butadiene Plant

PRODUCTION STARTING SOON

A NEW butadiene plant at Wilton, Yorks, built by Imperial Chemical Industries, Ltd., is shortly going into production. The butadiene will be one of the main raw materials used by the adjoining Butakon plant of the company,

at present under construction, for the plastics division of I.C.I.

IRISH NEWS

Irish Research Aided

WELLCOME FOUNDATION'S GIFT

TO finance the start of research into the medicinal potentialities of Irish native plants, a cheque was recently presented by the Wellcome Foundation, Ltd., to the Pharmaceutical Society of Ireland. The presentation ceremony was held in the Society's Council chamber in Dublin, and the gift was received by Mr. P. F. McGrath (president of the Society) from Dr. D. Wheeler (managing director, the Wellcome Foundation, Ltd.), Dr. F. Wrigley (general sales manager (medical), the Wellcome Foundation, Ltd.), Mr. W. Webb (manager, Dublin house of Burroughs Wellcome & Co.), Dr. R. Timoney (dean of the College of Pharmacy), and Mr. James G. Coleman (registrar, Pharmaceutical Society of Ireland) were among those present. DR. WHEELER said that his company had always been actively interested in the Society's endeavours, and in 1953 they had been happy to make a small contribution to assist in the equipping of the Society's aseptic room when they opened their new premises. "It is impossible to over-emphasise the importance of research in the pharmaceutical field," he said. "The Wellcome Foundation, Ltd., has long been a pioneer in the research field, and we are happy to encourage your Society's intention to investigate the potentialities for medicine of the Irish native plants, and to give some tangible recognition in the form of financial support. We shall follow the work of Dr. Timoney with keen interest, and will be happy to consider some further support in the light of the progress of that research." Replying, MR. MCGRATH said that because of the war, and the fact that they had not had a suitable building until recently, the Society had not been able to undertake any research work. Now Dr. Timoney and his staff would begin their research with, he was sure, beneficial results. Thanks to the generosity of the Wellcome Foundation such research could be conducted in the College.

Local Committee

CLOSING DATE FOR NOMINATIONS

NOMINATIONS for the Northern Ireland Local Pharmaceutical Committee close at noon on September 1. Retiring members of the Committee are eligible for re-election and do not require to be nominated. They are: Belfast, Messrs. H. W. Gamble, R. Gibson, J. McGregor, and S. McLoughlin; Londonderry, Mr. S. E. Campbell; co. Antrim, Mr. H. G. Campbell; co. Anagh, Mr. W. P. Ewart; co. Down, Mr. S. H. Forrest; co. Londonderry, Mr. A. Templeton; co. Tyrone, Mr. T. G. Rutledge. There is no retiring member from co. Fermanagh. Nominations, signed by the proposer and seconder, should be sent to the secretary of the Committee, 4 Waring Street, Belfast.

Council Election

NORTHERN IRELAND SOCIETY

NOMINATIONS for ten vacancies on the Council of the Pharmaceutical Society of Northern Ireland close at noon on September 10. The four retiring members of the Council seeking re-election are: Messrs. S. E. Campbell, H. J. Cousley, H. F. Moore and C. E. Moss. The number of pharmaceutical chemist representatives of the Council is being increased to eighteen, under the Pharmacy and Poisons Act (Northern Ireland), 1955, and so there are six additional places to be filled.

NEWS IN BRIEF

FORTY pints of Collovet animal tonic have been sent to Eire by the Crookes Laboratories, Ltd., for twelve elephants in Chipperfield's circus.

THIEVES recently climbed through a 10 x 8-in. window to steal £16 from W. H. Gee, Ltd., chemists, 247 Charlestown Road, Blackley, Manchester.

A FLOAT entered by the social club of Pfizer, Ltd., in a Venetian fête on the military canal at Hythe on August 15, won first-prize (a silver cup and £20) for *décor*, which depicted a Parisian street scene, and included 1,000 artificial roses made by the club's lady members.

A PROCESS worker at the Ulverston, Lancs, penicillin and streptomycin plant of Glaxo Laboratories, Ltd., Mr. W. Parkinson, has been awarded £300 tax-free for a suggestion leading to the more economic use of a material used to stop foaming during the fermentation process.

THE 1956 Supplement to the 1955 edition of *British Chemicals and their Manufacturers*, the biennial directory of the Association of British Chemical Manufacturers, contains many changes and additions to the list of products; the supplement is available free of charge from the A.B.C.M., Cecil Chambers, 86 Strand, London, W.C.2.

STATISTICS for 1953 of beds, patients and staff of every hospital and clinic in the National Health Service in England and Wales are given in the N.H.S. Hospital and Specialist Services, England and Wales, Statistics for year ended December 31, 1953. The statistics are compiled by the Ministry of Health and the volume is published by H.M. Stationery Office, price £1 7s. 6d.

SPORT

GOLF.—IRISH CHEMISTS' GOLFING SOCIETY at Clontarf golf club, recently. Prizes presented by Boileau & Boyd, Ltd., Merck-Sharp & Dohme, Ltd., and Messeson & Co., Ltd. *Eighteen holes strokes*: 1, H. Palmer (16), 68; 2, J. P. Holland (15), 69. *Best first nine*: 1, E. W. Massey 34. *Best second nine*: 1, P. F. Twohig 35. *Eighteen holes bogey*: 1, J. A. Pattison (9), 2 up; 2, J. Daly (18), 1 down.

LOCAL OFFICERS

PHARMACEUTICAL ASSOCIATIONS

South Shields Pharmacists'. — *Chairman*, Mr. G. H. Eales; *Treasurer*, Mr. B. H. Brown; *Secretary*, Mr. R. A. S. Brown, 45 Prince Edward Road, South Shields.

TOPICAL REFLECTIONS

By Xrayser

The Advancing Year

We glided so imperceptibly this year from the severity of winter to the rigours of summer that it comes as something of a shock to find the post bringing cordial invitations to attend Christmas shows. Less startling in its impact, because of the prevailing weather, is the column in last week's issue dealing with heating appliances suitable for the home, the office and the pharmacy (p. 165). The pharmacy, particularly of the smaller type, does not lend itself easily to the attainment of a comfortable temperature, or rather to its maintenance. We are all familiar with the hardy type of customer who complains of the cold, but holds the door open while he does so, thus dissipating in a minute or two the carefully husbanded warmth of an hour or more. But all round there is a growing realisation that comfort during business hours, of which there are so many, is as important as during our leisure. Appliances are cleaner and more efficient than in our earlier days, when the apprentice master was wont to regard blue hands and chilblains as evidence of an insufficient devotion to duty, which was certain to have an adverse affect on our future careers. But on reflection it may be that changing medical practice has contributed to the need for artificial heat. Three or four prescriptions for a gross of pills helped the circulation on a morning when icicles hung by the wall.

The Placebo

Much is heard of the waste of public moneys in the prescribing of placebos. A recent communication on their value, based on the results of clinical trials with active and inert substances side by side, indicates how large a part the mind of man can play in illness. Certain forms of neurosis can simulate quite accurately the symptoms of disease, and despite the wonders of modern science, the mind of the patient will always remain as an imponderable in the treatment of illness. It has been argued that the modern world has no place for the placebo, but there is something primitive in us all which cannot and should not be ignored. It is on the physicians' estimate of the whole structure—mind and body—that successful treatment is based, and cold science frequently fails to overcome the fears to which man is prey. In this respect, modern man may differ but little from his ancestor of two centuries back. The good doctor, with the thoughtful approach to the individual patient, is often able to allay anxiety and assist recovery with a very simple prescription which the pharmacologist would deride as useless. Science has achieved and is achieving wonders, but derision of the "simple" is tantamount to treating man as a machine without a mind. It is also argued that the good physician can achieve results by merely convincing his patient that there is nothing wrong, but such a method takes time and may have only a short-term effect.

The Humanities

It appears we are not alone in our attempt to revise the course of training and education of the pharmacist of the future. I note that the American Association of the Colleges of Pharmacy is to increase to two years the pre-pharmacy requirements for entry by students to pharmacy colleges (p. 167), and that the extra year is designed to broaden the pharmacist's point of view. In the additional year, students are to take more courses in the field of humanities. I was unaware that the word "humanities" was used in the United States in this connection. The term originated in the Middle Ages in Europe when the "humanists" in education so described themselves to emphasise the difference between them and the supporters of scholasticism. The new education which they introduced was largely classical and literary. In Scotland, the professor of Latin in the universities is called Professor of Humanities, and the field covered by the humanities is grammar, rhetoric, Latin, Greek and poetry. Whether it is the intention to go that length in American pharmacy is not clear.

PERSONALITIES

MR. JOHN RENNIE, M.P.S., Rawdon, Leeds, who was recently appointed chairman of Otley magistrates, retired for health reasons from his position as managing director of W. B. Cartwright, Ltd., in 1951, but he still remains a director of the company.

MR. FREDERICK J. ROBINSON, who has been elected president of



the Irish Drug Association, is the elder son of the late Sir Thomas Robinson, one of the founders and the first president of the Dublin Retail Drug Association which later became the Irish Drug Association. Sir Thomas put his son behind the

counter of his Grafton Street pharmacy, where he served a full term of apprenticeship and assistantship before qualifying as a licentiate of the Pharmaceutical Society. He is now chairman and managing director of Hayes, Conyngham & Robinson, Ltd., the Irish Republic's largest firm of multiple chemists. Mr. Robinson has always been closely associated with the work of the Irish Drug Association, and for some thirty years has served on its executive committee. He has been a member of the Council of the Pharmaceutical Society of Ireland for about six years. He has been a member of the Irish Chemists' Golfing Society for many years, and is also interested in photography.

DEATHS

BLACKER. — On July 23, Mr. Joseph Robert Blacker, M.P.S., 2 Esk Terrace, Birtley, co. Durham. Mr. Blacker qualified in 1927.

DOUTHWAITE. — On August 6, Mr. Douglas George Douthwaite, M.P.S., 79 Momus Boulevard, Binley Road, Coventry, aged eighty-two. Mr. Douthwaite was for some time at Barnstaple and Woking before going to the Hillfields district of Coventry, where he was in business for forty-five years until the time of his retirement in 1953.

HAMPTON. — At his home, recently, Mr. William Henry Hampton, M.P.S., 47 Northgate Street, Gloucester, aged eighty-two. Mr. Hampton qualified in 1897, and took over his business in Northgate Street, Gloucester, in 1901. He opened a branch shop in Bristol Road, Gloucester, soon after the 1914-18 war and in 1938 the business became a limited company with Mr. Hampton as chairman. Mr. Hampton was secretary of Gloucester Pharmaceutical Committee from its formation in 1913 until 1948.

KRISTELLER. — On August 9, Mr. Bernhard Israel Kristeller, M.P.S., 98 Brondesbury Villas, London, N.W.6, aged fifty-two. Mr. Kristeller was registered in 1944.

NORMAN. — In hospital at Bristol recently, Mr. William Norman, M.P.S., 113 Milton Road, Weston-super-Mare, Somerset. Mr. Norman, who qualified in 1920, went to Weston from Torquay and for twelve years was manager of Leonard Dale (Chemists), Ltd., Weston. More recently he was manager of the Banwell branch of R. B. Gibson (Chemists), Ltd. He is survived by his widow.

STEWART. — At a nursing home, East Kilbride, on August 15, Mr. William Loudon Stewart, 20 Park Road, Hamilton, aged seventy-three.

Mr. Stewart was formerly in partnership in a chemists' business in Cadzow Street, Hamilton.

TALBOT. — At his daughter's home in Bristol on August 11, Mr. John Talbot, M.P.S., 1 Chatsworth Avenue, Wembley Hill, Middlesex, aged seventy-seven. Mr. Talbot was in business at Park Parade, Wembley Hill, for many years.

WATKINS. — On August 4, Mr. Thomas Morgan Watkins, 200, Boyson Road, Walworth, London, S.E.17, aged sixty-one. Mr. Watkins qualified as a chemist and druggist in 1923.

INDUSTRY AND SCIENCE

Evening courses at a London college

AMONG evening courses available at the Sir John Cass College, Jewry Street, Aldgate, London, E.C.3, in the 1956-57 session, are the following:—

INDUSTRIAL LAW. The course consists of twelve lectures (by Mr. Anthony Walton) that are being given at 6 p.m. on Thursday evenings beginning on September 27. Fee for the course is £1. A course of lectures on patents is being held during the second term and on trade marks in the third term.

STATISTICAL METHODS in scientific and industrial research. The course consists of about twenty lectures (by Mr. A. J. Feuill, B.Sc., Ph.D. (Lond.), A.R.I.C.), and is being held at 6.30 p.m. on Monday evenings during the first and second terms, beginning on September 24. The course is provided for chemists, biologists and others interested in the practical application of statistics to problems of research and manufacture. Fee, £2.

SPECTROCHEMICAL ANALYSIS. The course, which is based upon techniques of emission spectroscopy, consists of twelve lectures (by Mr. A. S. Nickelson, B.Sc. (Lond.), F.R.I.C.) and is being held from 6 to 7 p.m. on Wednesday evenings beginning on September 26. A laboratory course in both emission and absorption spectroscopy is being arranged to suit students' requirements. Fee, £1. A course of ten lectures on absorption spectroscopy is being held in the second term.

ABSORPTION SPECTROSCOPY. The course consists of ten lectures (by Mr. A. R. Philpotts, M.A. (Cantab.)) and is being held from 6 to 7 p.m. on Friday evenings, beginning on September 28. A laboratory course in both emission and absorption spectroscopy is being arranged to suit students' requirements. Fee, £1.

RADIOCHEMISTRY AND RADIOACTIVITY. The course consists of eight lectures (by Mr. A. G. Maddock, M.A., Ph.D., A.R.C.S., D.I.C.) and is being held at 6 p.m. on Tuesday evenings, beginning on October 2. Fee, £1. A course on the applications of radioactivity in biology is being arranged for the second term.

FUNDAMENTALS OF MICROBIOLOGY. A course of about thirty lectures and laboratory work (by Mr. N. J. Butler, M.Sc. (N.Z.)) is being held from 6 to 9 p.m. on Tuesday evenings, beginning on October 2. The course provides an introduction to microbiological techniques and is being addressed especially to graduates in chemistry, botany or zoology. The course is not designed for persons concerned with medical or veterinary applications of microbiology. Fee, £2.

APPLIED MICROBIOLOGY. A course of about thirty lectures and laboratory work (by Mr. N. J. Butler, M.Sc. (N.Z.)), is being held at 6 p.m. on Thursday evenings, beginning on October 4. Fee, £2. The course forms a survey of the applications of microbiology in industry and is designed for students who have completed the fundamental course or those with a knowledge of, and experience in, microbiology.

Detailed prospectuses and enrolment forms for the courses are available from the college secretary.

DEVELOPMENTS IN THE UNITED STATES

Chemicals in "Medium" Quantities

Facilities installed by the American Cyanamid Co. at Warners, N.J., and at Bound Brook, N.J., for producing a wide range of chemical compounds embodying numerous processes are designed to produce at a rate midway between pilot and commercial scale.

Blood-clotting Factor

A new blood-clotting factor, factor X (10), was reported by a team of Swiss research workers at the fifth annual symposium on blood sponsored by the Wayne University College of Medicine, Detroit, Michigan, recently.

Handbook of Toxicology

The first volume of *Handbook of Toxicology* has been published by the W. B. Saunders Co., Philadelphia, Pennsylvania. The work which will be complete in five volumes is claimed to contain the most comprehensive data ever compiled on the dangers of chemicals and poisons. It is being prepared by the National Academy of Sciences, National Research Council, Washington, D.C.

Mouse Leukaemia Virus Found

The discovery for the first time of a virus that consistently causes mouse leukaemia even when inoculated into the adult animal has been announced by Dr. Charlotte Friend of the Sloan-Kettering Institute for Cancer Research, New York.

Patent for New Antibiotic

A patent on a new antibiotic, PA-105 (oleandomycin) has been granted to Chas. Pfizer & Co., Inc., New York. In preliminary tests oleandomycin has proved effective against staphylococci resistant to other antibiotics.

CHEMIST CONTRACTORS' REMUNERATION

Public Accounts Committee's Views

THE Committee of Public Accounts, in its sixth report for the session 1955-56, published recently, expresses dissatisfaction at the apparently interminable delays in reaching conclusions on the terms of remuneration of chemist contractors in the National Health Service. That chemists in England and Wales were now claiming an increase in remuneration with effect from 1954 underlined the need, particularly in times of rising prices, for prompt settlements following upon cost investigations. Unless early action was taken the results of the investigations became out of date before they could be applied and it might prove difficult to make any adjustment found necessary, retrospectively.

Scottish Surplus Increased

The Committee noted that one result of further examination in Scotland of the accountants' report on payments to chemists had been "to increase the surplus disclosed to 3.7d. per prescription" [the previous average "surplus" quoted had been 3.33d.]. The Committee had been informed in evidence that tactically the Department of Health for Scotland would have been justified in making a cut in remuneration of 5 per cent. in April 1955, but strategically the object was to achieve an agreed settlement over the whole field; moreover costs had risen since 1952 [the year for which the figures showed an apparent "surplus"]. The Committee found those arguments "far from convincing." It appeared to it that the strategic approach had cost the Exchequer about £250,000 a year "for some imponderable benefit that might well have been lost through delays in settlement during a time of rising costs. It is noted by the Committee that although a charge for interest is included in the Scottish figures, the surplus disclosed is appreciably higher than in England and Wales. The Committee concludes that it is confirmed in its belief that the Scottish terms of remuneration are more favourable than the English and it "presses most strongly the recommendation in its third report (C. & D., December 3, 1955, p. 625) that early and special consideration should be given to the discontinuance of differences in chemists' remuneration which are not justified by the differences in cost.

The report notes that the average surpluses per prescription revealed by the accountants' figures cover wide differences in individual results, the size of the surplus varying roughly with the number of EC10's dispensed. Thus the accountants' report showed that for England and Wales the out-turn ranged from an average deficit of 10.9d. per prescription for chemists dispensing up to 500 prescriptions per month to a surplus of 3.9d. for chemists dispensing over 2,000 a month; and that for Scotland the approximate corresponding range was from a loss of 13.8d. to a profit of 8.7d. As it

appeared from those figures that the uniform rates of remuneration might have been unduly generous to the larger concerns, the Committee had asked the Ministry of Health whether consideration had been given to a system of remuneration varying according to the number of prescriptions dispensed. The Ministry thought that such an arrangement would be difficult to operate but stated that it had not closed its mind to it.

The Committee recognised that there might be difficulties, but a differential system was necessary if remuneration considered fair and just for the chemist dispensing a small number of prescriptions was not to be given also to the large chemist. The Committee recommended therefore that in the negotiations now proceeding, consideration should be given to the introduction of a system of remuneration which related payment to the number of prescriptions dispensed.

The Committee was concerned about the apparent lack of information on discounts available to chemists when purchasing drugs. It fully endorsed the Treasury view that vigorous efforts should be made to secure for the Exchequer benefit from the fact that some chemists bought their supplies at less than tariff prices, and found it difficult to envisage any equitable settlement with the chemists that failed to take account of the actual prices they paid. The Committee could not agree that the inquiries into actual prices paid would be better deferred until after the main terms of remuneration had been settled; nor that the inquiries should exclude proprietary preparations. Since the prices were likely to vary with the size of dispensing practice, force was added to the recommendation for a system of differential remuneration. The Committee therefore recommended that inquiries should be undertaken forthwith.

NEW COMPANIES

P.C.—Private Company; R.O.—Registered Office.

F. G. ERNST, LTD. (P.C.).—Capital £100. To carry on the business of wholesalers and manufacturers of and dealers in surgical and orthopaedic appliances, etc. Pamela L. Ernst, Bryn-wr-Aber, Bala, N. Wales, is the first director. R.O.: 43 Upper Berkeley Street, London, W.1.

PRESTON PRODUCTS, LTD. (P.C.).—Capital £400. To carry on the business of manufacturers of and dealers in soaps, detergents, etc. Directors: Arthur V. Sharples, Dorothy Sharples, William D. Margerison, and William W. M. Margerison. R.O.: Leighton Street, Preston, Lancs.

H. TAYLOR CHEMICALS (INDUSTRIAL), LTD. (P.C.).—Registered May 23. Capital £100. To carry on the business of manufacturers of and dealers in chemicals, etc. Directors: Henry Sheridan-Taylor, and Abram Schneider. R.O.: 47 Great Dover Street, London, W.1.

PHARMACY CONFECTIONS, LTD. (P.C.).—Capital £4,000. To acquire the business of a manufacturer and wholesaler of chemists' confectionery carried on by Francis Mulroy, 18 Long Lane, Dalton, Huddersfield. Directors: Francis Mulroy and Sylvia Mulroy. R.O.: 55 New Street, Huddersfield.

KERMATH'S PHARMACY, LTD. (P.C.).—Registered in Edinburgh. Capital £4,000. To carry on the business of chemists and druggists, etc. Directors: W. C. Macdonald, R. Cunningham and H. W. B. Buxton, M.B., D.H.P., The Friary, Bakers Lane, Black Notley, Essex.

LANDASE CHEMICAL CO., LTD. (P.C.).—Capital £1,000. To carry on the business of wholesale and retail chemists, druggists, etc. Directors: Vernon Davenport (director, Globe Products, Ltd.) and Frances M. Bradbury. R.O.: 10 Ashfield Road, High Street, Cheadle, Ches.

VETERINARY SURGEONS SUPPLY CO., LTD. (P.C.).—Registered in Belfast. Capital £1,000. To carry on the business of wholesale and retail chemists, etc. Subscribers: R. W. Cassells, West Street, Newtownards, J. N. Hunniford, W. D. J. McCartney, T. K. Allen and Thomas Steele. The first directors are not named.

PRESMEBRED, LTD. (P.C.).—Capital £100. To carry on the business of manufacturing and dispensing chemists and druggists, etc. Directors: John C. Russell (director, Higham Thomas, Ltd.), and Leslie M. Turnbull (director, M. A. M. Rubber Manufacturing Co., Ltd.). R.O.: Farleigh House, Lawrence Lane, London, E.C.2.

Company News

Last year's figures in parentheses

PLANT PROTECTION, LTD.—Dr. G. Watts Padwick of the Central Agricultural Control of Imperial Chemical Industries, Ltd., is to join the board on September 1.

BUSINESS CHANGES

THE address of Fontaine (Perfumes), Ltd., and of the Toro Soap Co., Ltd., have been changed to Castle Soap Works, Ashby-de-la-Zouch, Leics.

THE name of the former Typke & King, Ltd., has been changed to Durham Chemicals, Ltd., and the name of the former Durham Chemicals, Ltd., to Durham Chemical Group, Ltd.

MR. RICHARD GOLDBERG, M.P.S., has disposed of his pharmacy at 8 Hare Hill Road, Littleborough, Lancs. and has acquired the pharmacy at 58 St. James' Street, Brighton, 1.

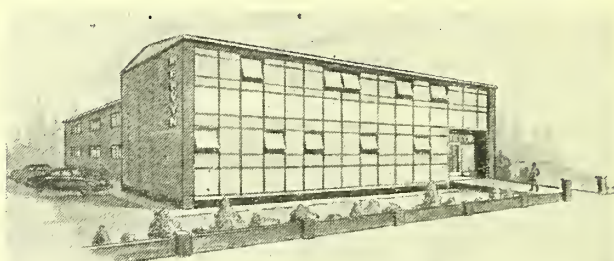
Appointment

WARRICK BROTHERS, LTD., Perkins Street, Coventry, have appointed Mr. T. A. Cole their representative in the South Wales and South-west England areas.

INSTRUMENTS AND APPARATUS

Vest-pocket Laboratory. — A "vest-pocket laboratory," technically known as a semi-micro set, now on permanent exhibition at the Science Museum, South Kensington, was evolved by Dr. J. T. Stock (associate professor in chemistry, University of Connecticut, U.S.A.), and Mr. M. A. Fill (Norwood Technical Institute, London). The set makes use of sixty-one components from the range of interchangeable laboratory glassware manufactured by Quickfit & Quartz, Ltd., Stone, Staffs. The assembly was designed by Dr. Stock and Mr. Fill for use as a technical college demonstration unit, but it is equally effective as a mobile laboratory for work in the field (as for the determination of insecticides on farms).

Laboratory Freeze-drying.—Edwards High Vacuum, Ltd., Manor Road,



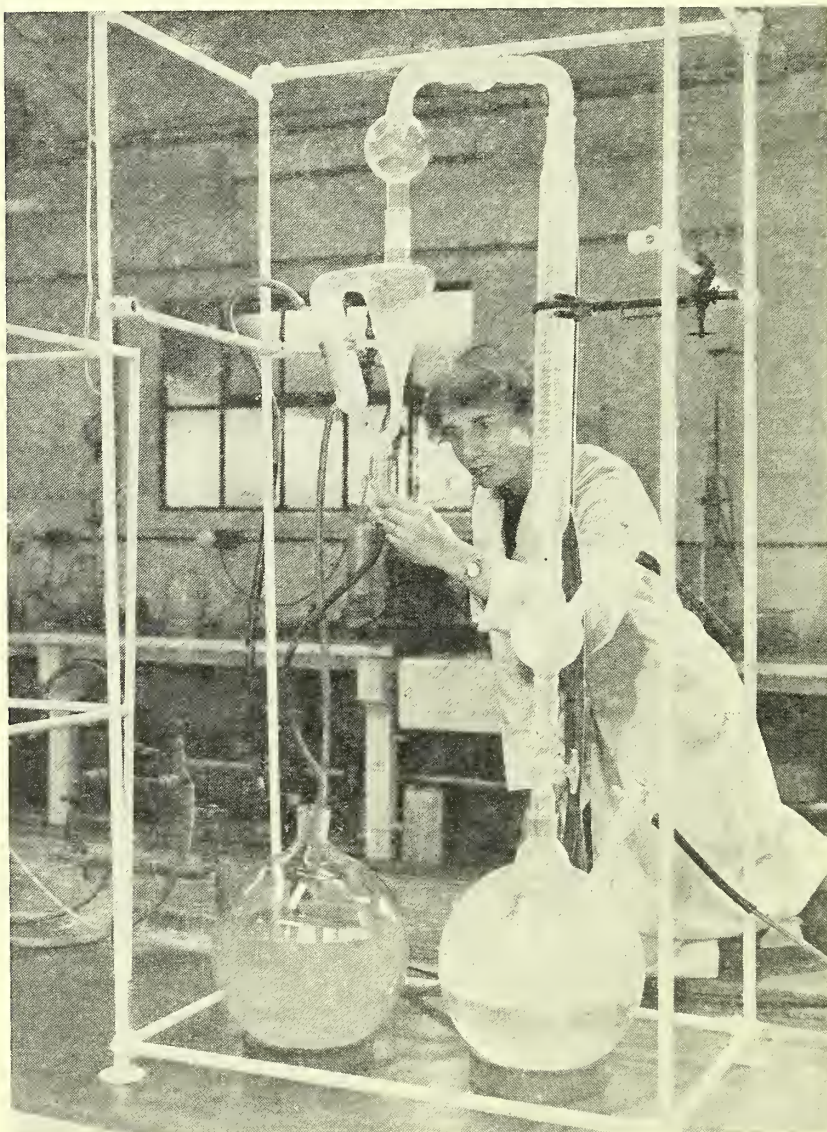
red spectrometer and automatic data-handling equipment). The new premises, in contemporary style, will use electric storage heating.

Crawley, Sussex, have recently added to their range of freeze-drying equipment a small and simple apparatus, the 10P, for pharmaceutical and other laboratories where facilities already exist for freez-

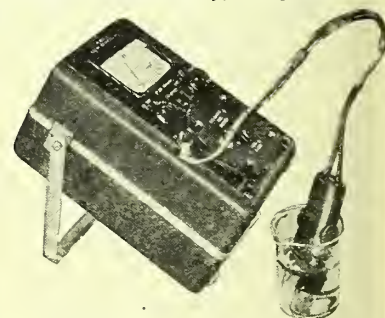
ing such substances as vaccines, sera, bacterial cultures and antibiotics. It is designed for use with existing vacuum pumps, and consists basically of an inverted metallised bell jar, on top of which is mounted a metal plate which is fitted with the drying ports. Provision is made for a small header which can be attached if ampoules are to be dried, and other accessories are available. Water vapour from the materials being dried is frozen on a refrigerant-cooled glass flask, which is easily removed for defrosting between drying periods.

Servicing for Spectrophotometers. — Baird & Tatlock (London), Ltd., Freshwater Road, Chadwell Heath, Essex, agents for the Beckman division of Beckman Instruments, Inc., are now equipped to provide a comprehensive service for Beckman spectrophotometers. New spectrophotometers are installed and serviced free of charge during the guarantee period, and stocks of the more common spare parts are held by the company's service department. They undertake also to service such instruments after the expiration of the guarantee period, and other Beckman spectrophotometers, on the usual basis of time, materials and travelling expenses. Many spectrophotometers and allied instruments are available from the Beckman factory at Munich, Germany. Other Beckman instruments are imported direct from the United States subject to the necessary import licence being granted.

Portable pH Meter.—Claimed to be highly suitable for routine checks in works and laboratory, the portable pH



LABORATORY GLASSWARE IN INDUSTRY: The growing importance of glass apparatus in industrial production is illustrated by the photograph here reproduced of a vacuum evaporator constructed by Quickfit & Quartz, Ltd., Stone, Staffs, for L. Light & Co., Ltd., Colnbrook, Slough, Bucks, for the manufacture of amino acids.



meter T.F.889, manufactured by Marconi Instruments, Ltd., St. Albans, Herts, is a direct reading instrument complete with protected glass electrode assembly.

NEW PRODUCTS AND PACKS

New in Ampoule Form.—Apresoline is now being marketed in ampoule form by Ciba Laboratories, Ltd., Horsham, Sussex. The 1-c.c. ampoules each contain 20 mgm. and are available in packs of six and twenty-five.

New Make-up Range.—A new range of lipstick, rouge and nail lacquer entitled Rose Aurora is being marketed in September by Elizabeth Arden, 25 Old Bond Street, London, W.1. Rose Aurora is a light, yet luminous pink.

Coloured Toilet Tissue.—A new 2-ply toilet tissue, Ozo, available in peach, green, blue and white, is announced by the Ellern Paper Co., Ltd., Ashford Road, Ashford, Middle-

sex. Ozo is now available in the London area and will shortly be distributed throughout the country. For a minimum order of six doz. rolls, the makers are supplying a wire display container which holds one roll of each colour and a sample roll at the side.

For Urethrography.—A new preparation, Umbradil viscous U, for use in urethrography, is now being marketed by Astrapharm, Ltd., 3 The Mall, Surbiton, Surrey. Umbradil viscous U is a sterile, viscous, water-soluble preparation containing in each 100 c.c., 3,5-diiodo-4-pyridone-N-acetic acid diethanolamine 35 gm.; Xylocaine 0.25 gm.; methyl hydroxybenzoate 0.1 gm.; propyl hydroxybenzoate 0.05 gm.; and carboxymethylcellulose. Packings are single 40-c.c. tube or box of six tubes.

Now in Suppository Form.—S. Maw, Son & Sons, Ltd., Aldersgate House, New Barnet, Herts, announce that Hematrix suppositories are now available for the treatment of hemorrhoids, pruritus ani, fissure inflammation and associated conditions of rectal and anal tissues. With the same formula as Hematrix ointment, Hematrix suppositories are moulded to a conical shape facilitating insertion and maximum contact area. The suppositories are packed in box of twelve.

Price Stabilisation.—Laporte Chemicals, Ltd., Luton, announce that subject to influences over which they have no control, the company will not increase the home trade selling prices of any of a number of commodities before March 31, 1957, or thereafter as far as may be practicable. The items include hydrogen peroxide, sodium perborate and all other peroxygen compounds, barium compounds, sodium sulphide, and industrial detergents.

Window Display Competition.—A national window display competition to promote the sales of their prescription lamps is being organised by Hanovia Lamps (Division of Engelhard Industries, Ltd.), Bush Road, Slough, Bucks, from September 1 to November 9. The displays, which will have as the main theme "Fight Ill Health in the Home," are being divided into two main groups—retail chemists and electrical retailers. There will be three prizes in each group: £100; £50 and £25. The competition, which is restricted to Hanovia dealers, is being judged from photographs submitted by the participant. The judges will be the editors of leading trade journals, a representative from the company's advertising agents and artist Arthur Ferrier.

Display Material and Packs.—County Laboratories, Ltd., Honeyput Lane, Stanmore, Middlesex, are distributing through their representatives a number of showcards and display pieces for the company's specialities.

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For Metabolic Insufficiency.—Mentley & James, Ltd., Coldharbour Lane, London, S.E.5, announce the introduction of Cynomel, which presents l-triiodothyronine as the sodium salt, in tablets of 5 and 25 microgm. Both

New Instant Make-up.—A new instant make-up, Satin Finish, has been introduced by Bourjois, Ltd., 2 Old Bond Street, London, W.1. The new make-up can be used continuously without causing dryness, flaking, or "that tight stretched feeling" to the face. It is non-streaking and non-caking and the colour remains true. It is smooth and creamy in texture, easy to apply, and lightly perfumed with Evening in Paris. There are four shades, Texas (rose petal blonde), Miami (honey glow), Mexico (warm gold), and Cuba (sun bronze).

TRADE NOTES

"No Shake" Thermometer.—The Springeasly clinical thermometer made by Heath, Hicks & Perken (Thermometers), Ltd., New Eltham, London, S.E.9, resets almost automatically thus obviating breakages caused by shaking down the thermometer.

Dispatch with little Delay.—Meggeson & Co., Ltd., Llewellyn Street, London, S.E.16, state that despite the enormous demand created by their recent heavy advertising of Meggeson bismuth dyspepsia tablets, all orders are being dispatched with as little delay as possible.

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The items include B854, a model carrying a suitcase of Brylcreem; SP906-07 and -08, a set of three crownors for Silvikrin, each carrying one selling point; SPS958, SLS959 and SCS960, a set of counter cards bearing the Demachy girl drawings to link up with current Press advertising and designed to accommodate Silvikrin powder, liquid, and cream shampoos; A802, a six-bottle stand for Amami wave set; BR823, a display carton holding one bath and one toilet sizes Bristow's soap. —CUXSON, GERRARD & CO., LTD., Fountain Lane, Oldbury, Birmingham, have redesigned the carton and outer for their Carnation corn caps, a C.F. product. The carton is in the red, green, white and black colours of the pack.—BIRLEY'S ANTACID, LTD., Fore Street, St. Marychurch, Devon, are issuing Birley's antacid powder and tablets in new display packs, the first holding two packets of tablets and four tins of powder; the second seven packets of tablets. Both packs are designed for counter self-service. —The D.D.D. Co., LTD., 94 Rickmansworth Road, Watford, Herts, have produced a new display container for D.D.D. balm in tubes. The outer holds 1 doz. cartoned tubes.

Christmas Showrooms

Roberts Windsor Soap Co., Ltd., Gladstone Works, Windsor, Berks.

BRISTOL: Royal Hotel, August 27-30.

LEEDS: Queens Hotel, August 27-30.

GLASGOW: St. Enoch's Hotel, August 27-30.

NEWCASTLE: Turk's Head Hotel, September 3-6.

NOTTINGHAM: County Hotel, September 10-13.

BIRMINGHAM: Grand Hotel, September 10-13.

CARDIFF: Royal Hotel, September 17-20.

MANCHESTER: Queens Hotel, September 3-7.

Bonus Offer

MEGGESON & CO., LTD., Llewellyn Street, London, S.E.16. Meggeson bismuth dyspepsia tablets. One doz. tins of glycerin and blackcurrant pastilles or glycerin, lemon and honey pastilles, or Gee's linctus, B.P.C., pastilles free with orders to value of £10. The pastilles required as bonus should be specified.

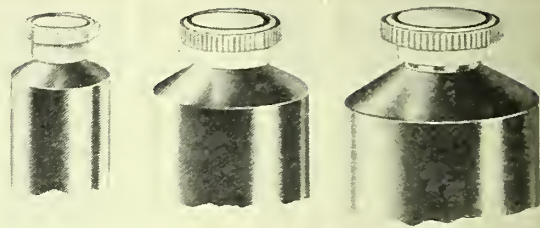


PACKAGING NOTES

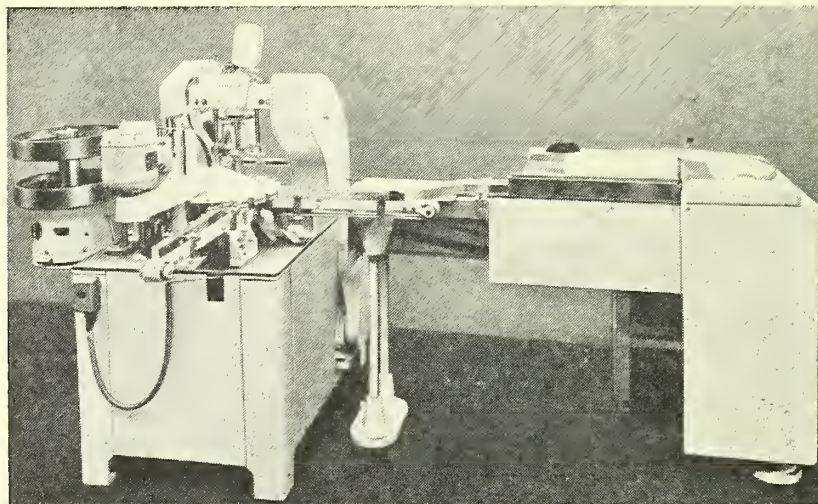
Automatic Rubber-bunging.— Fully automatic rubber-bunging of vials is made with the Autopack patented bunging unit, which places any type of rubber bung, in any condition (wet, dry or sticky) squarely in the vial. The unit has been incorporated in the Autopack automatic vial machine. Vials are fed into the machine by conveyor (an unscrambling table, as illustrated, is optional), and filled with liquid or powder by syringe or powder-filling unit. The next stage places the bung in the vial, and the final stage spins the aluminium cap and ejects the vial on to the outlet conveyor. Output speeds are up to fifty per minute on single units, as illustrated, or up to 100 per minute on a twin unit. All standard sizes of vial can be accommodated, and the machine is fully adjustable for size of cap and diameter of stopper, complete adjustment from one size to another being easily and quickly effected. All parts coming in

Standard polythene tube caps available from Flexile Metal Co., Ltd.

ing to the end of the tube. Polythene caps are less likely than hard plastic caps to work loose during transport and are particularly suitable where there is any danger of seepage. The polythene caps have a glossy finish and are available in black, white, natural or a range of pastel shades. They are equally suitable for use on aluminium, tin-coated lead or tin tubes and are suitable with nearly any type of product. Standard caps are available at attractive prices and without tool charge. For designing and producing special caps for



a customer's exclusive use, a tool charge is usually necessary.



Fully automatic bunging unit manufactured by Autopack, Ltd., Caroline Street, Birmingham, 3.

contact with the material are in stainless steel and are instantly detachable for cleaning or sterilising without the use of tools. Automatic safety devices and check points are incorporated at all stages, together with an overload clutch which immediately cuts the motor in the event of the slightest increase in load. The makers are Autopack, Ltd., Caroline Street, Birmingham, 3. What may be a record single order for that type of machinery was placed with the company recently by their Far East agents: Biddle, Sawyer & Co., Ltd., London. It was for the shipment to China of thirty-two of the machines.

Standard Polythene Tube-caps.— Flexile Metal Co., Ltd., 796 Holloway Road, London, N.19, have laid down a moulding plant and a range of tools for supplying polythene caps for short screwed-nozzle tubes. No. 80 and No. 95 caps are being made available in the standard octagon or round milled shape. Owing to the soft nature of the material the cap does away with the need for a wad; the interior of the cap is fitted with a dome, which forms a perfect seal against the orifice of the tube. There is no danger of a wad falling out or adher-



TWO-PLASTICS PACK: Illustrated is the new container made by Universal Metal Products, Ltd., Langley Road, Salford, 6, Lancs. It consists of three parts—a cover and base made from polystyrene; and a centre ring made from polythene. The polythene ring has a centre hole which conforms to the shape of the fluted soap, and at the other end of the polythene ring is an undercut which clips on to a flange on the base, thus holding the two parts tightly together. The polythene flexes to allow easy passage of the soap when pushed up, but tightens up again when the pressure is removed from the bottom of the soap. This prevents it from pushing itself back into the container when not in use. A patent has been taken out for the container by the manufacturers.



Nike bag sealer made by Better Packages, Inc., Shelton, Conn., U.S.A., and marketed in Britain by Johnson & Johnson (Gt. Britain), Ltd., Slough, Bucks (see C. & D., July 7, p. 8).

LATERAL FILING

A LATERAL filing system perfected by Roneo, Ltd., 17 Southampton Row, W.C.1, offers an unusual degree of visibility and accessibility and makes maximum use of height, and minimum demand on floor space. The system can be installed economically in existing shelving and cupboards. A reference



shelf is situated at a convenient height. Papers may be laid upon it before filing; in the various pockets; or a clerk may extract a file, open and inspect it, take notes and return the folder in a matter of seconds on the spot. The overall height of the installation is 7 ft. and it is fitted with five rows of pockets protected by steel-roller curtains, which may be locked for privacy and safety.

EXAMINATION RESULTS

Successful candidates in Scotland

THE following candidates satisfied the examiners in the Pharmaceutical Chemist Qualifying examination held by the Pharmaceutical Society in Scotland in July (†=certificate withheld pending evidence of practical training or age):—

Ackroyd, Keith, Halifax
 †Addey, Gerald T., Doncaster
 Allansen, Charles W., Dinas Powis
 †Allardyce, Charles E., Dundee
 †Allen, Margaret R., Motherwell
 †Allenby, William M., North Shields
 †Amin, Natverlal M., Nairobi
 Anderson, Vernon R., Morecambe
 †Andrew, Alfred J. H., Beckenham
 Appelbe, Gordon E., Birmingham
 Appleby, Edith M., Howdon-on-Tyne
 †Ata-Amonoo, Kweku, Aberdeen
 Austin, Bernard J., Lee
 †Ayrton, Constance M., Nelson
 Baker, Albert G., East Ham
 Baker, Raymond E., Leeds
 †Bannerman, James P., Glasgow
 Barnes, Michael J. P., Maidenhead
 †Barron, Evelyn A., Glasgow
 Barton, Harold, Chorley
 †Baum, Laurence, Colindale
 †Bavalia, Kundanrai P., Uganda
 Beaton, Hermione C. R., Kirkcaldy
 Bennett, Ralph E., Chester
 †Berkovitz, Harold J., Leeds
 Black, Eric R., Liverpool
 Blatt, Philip M., South Tottenham
 Bolton, Peter, Huddersfield
 Booth, Gregory N., Barnstaple
 Bostock, Leslie B., Nantwich
 Bowman, Robert, Carlisle
 Bowyer, Paul H., Wolverhampton
 †Braun, Bela, Salford
 Brice, Vera D., Islington
 Brook, Kenneth, Huddersfield
 †Brown, Anne P., Birmingham
 Brown, Sheila M., Glasgow
 †Brydon, Anne M., Newcastle-on-Tyne
 Bullous, Gordon H., Sheffield
 Caldwell, John, Glasgow
 Campbell, Elizabeth A. D., Lossie-mouth
 Charlton, William R., Bedlington Station
 Clark, John B., Gateshead
 Cochrane, Llewellyn W., Dundee
 Cohen, Hyman, Glasgow
 Cole, Ronald, Wakefield
 †Collins, Gerald, Kingsbury
 Coombs, Jacqueline, Blackburn
 Cooper, John T., Upton-on-Severn
 Copley, John M., Hull
 Corlass, John D., Hull
 Cox, David E. D., Cheltenham
 Craig, David F., Kirkcaldy
 Crump, Dora A., Hampton Lucy
 Cummins, Peter J. M., Swansea
 Dales, Charles H., Spalding
 †Davies, Elizabeth J., Swansea
 Davidson, James G., Heaton
 †Daya, Mansoorali M., West Croydon
 Dennis, Raymond, Darlington
 †Deritis, Anthony J., Islington
 †Doig, Margaret A. G., Anstruther
 Donnelly, John, Coatbridge
 Driver, Thomas, Earby
 †Drucker, Irwin S., Bow
 Duggan, Patricia D., Plymouth
 Durant, James M., North Shields
 Eggleston, Brian, Keswick
 England, Keith, Wakefield

†Ewing, Sheila G. M., Edinburgh
 †Farmer, Mavis, Durham
 †Garnett, Jeffrey R., Bradford
 Glen, Thomas F., Bute
 Graham, Gordon, Newcastle-on-Tyne
 †Gray, Anne M. M., York
 †Green, Mervyn, Clapham
 Gregory, Sylvia E., Mapperley
 Griffiths, Colin W., Leeds
 Grundy, Alan R., Chilwell
 Hall, Mary K., Bristol
 Hargreaves, John B., Leeds
 Harvey, Peter T., Romford
 Hatton, Averil B., Rotherham
 Hellawell, Brian, Huddersfield
 Henderson, Stewart, Carlisle
 †Hickman, Janet V., Darlington
 Higgins, Jeannette A. K., Glasgow
 Hirst, Frank J., Pudsey
 †Holzer, Erwin K., Notting Hill
 Hopkins, Sheila M., Willenhall
 Horrell, Derek R., Walthamstow
 †Hourston, Gordon M., Edinburgh
 Hughes, John H., Wrexham
 †Humphries, Jean E., Bath
 Hurst, Anthony J., Hoole
 †Ison, Philip E., Birmingham
 †Jackson, Dinah, Wooler
 Jackson, Donald J., Plymouth
 †Jacques, Albert D., Skipton
 Jamieson, Edith M., Aberdeen
 Johns, Richard B. A., Birmingham
 Jones, Dilwyn, Bargoed
 †Jones, Judith, West Bromwich
 Jones, Peter E., Cheltenham
 Jones, Philip T., West Bromwich
 †Joshi, Hari R., Aberdeen
 Keene, Shirley M., Pinner
 †Keighley, Joan M., Hull
 †Kellock, Joan, Johnstone
 †Kerr, Annie M., Montrose
 Knap, Nadia P., West Kensington
 Lappin, Maureen, Consett
 Lawson, Barbara E., Shipley
 Leiter, Alan L., Stoke Newington
 Lockhart, Elizabeth A., Glasgow
 Longstaff, Francis, Chester-le-Street
 Lund, Mavis B., Biggleswade
 †Lyle, Margaret B., Glasgow
 McCree, Patrick D., Sunderland
 McDade, William S., Rosyth
 MacDonald, Dan K., Birmingham
 †McHaffie-Gordon, Dorothea G., Carstairs Junction
 †McIntosh, Brenda, Hull
 †McKay, Eileen S., Huntly
 †McKay, Joan M., Norwich
 †McKean, Sheila M., Paisley
 McManus, William E., Glasgow
 McQuilkin, Mary L., Paisley
 Mack, Thomas A., Leuchars
 †Mangla, Trikamdas, Johannesburg
 †Marshall, Alyne, Blaydon-on-Tyne
 Marshall, Michael R., Bradford
 Massey, Margaret A., Willenhall
 Matthews, Eric R., Exeter
 †Moore, Kevin G., South Shields
 †Moxon, Rosemary, Preston
 Muir, James C., Dumbarton
 Munro, James S., Forres
 †Murray, Jean P., Dundee
 Myers, Donald H., Leeds
 Nash, Harold C., Lancaster
 Naudé, Jan D., Glasgow
 Neate, Norman W., Henley-on-Thames
 Noble, Ian, Torry
 O'Donnell, Maureen, Alexandria
 Olins, Harold W., Edgware

†Oxley, Doris M., Boldon Colliery
 Parry, Vernon F., Swansea
 †Patrick, Alice L. P., Brixham
 Pattemore, Christine F., Stoke-under-Ham
 Peacock, Robert, Larkhall
 Pearce, Christopher S., Newcastle
 †Pearce, Derek J., Bristol
 Pearce, Leslie B., Newcastle-on-Tyne
 Pearl, Leslie, Dalston
 Pearse, Derek J., Bristol
 †Peirs, Carl E., North Shields
 †Phillips, Norman C., Newcastle-on-Tyne
 Pirnie, John F., Glasgow
 Prescott, Joyce W., Birmingham
 †Procter, Michael A., Sanderstead
 †Purkis, Derek A., Exeter
 Quick, Joan M., Yelverton
 †Ramshaw, Anne B., Sunderland
 Rew, Derek L., Exeter
 Richardson, Rene J., Cricklewood
 †Robinson, John M., Leeds
 †Robson, Francis J., Nairobi
 †Robson, Joan N., South Shields
 †Roseweir, June R., Glasgow
 †Russell, Peter, Southwick
 †Sarner, Marcus, Golders Green
 †Scott, Mavis A., Hull
 Segal, Ruth, Hull
 Sendall, Graham, Sheffield
 Slade, Brian V., Sutton Coldfield
 †Smith, Elizabeth C., West Linton
 Smith, Ronald V., Eastwood
 †Snoddy, James B., Kirkcaldy
 Somers, Edith A., Leeds
 Spark, Charles E., Newcastle-on-Tyne
 Spencer, Harry K., Southport
 Stagg, Brian, Swindon
 Steventon, James A., Birmingham
 Stewart, Rhoda, Dundee
 †Stone, Albert L., Cardiff
 †Sugarman, Sidney T., Hull
 †Sutherland, Jeanette C., Ladybank
 †Tait, Ian S. R., Kemnay
 Tanner, Douglas A. C., East Kirkby
 †Tattersall, Peter, Blackburn
 Taylor, Martin, Huddersfield
 †Thomas, Colin T. K., Bradford
 Thomas, John L., Rhondda
 Thomas, Mary, Manchester
 Thomasson, Eileen M., Coventry
 Thompson, Pamela E., Portsmouth
 Thompson, Pamela W., Wolverhampton
 †Thomson, Kathleen M., Dundee
 Timms, Ann, Eardistey
 †Tinley, Jillian P., Birmingham
 †Trainor, Geoffrey, Bolton
 Tuck, Brian C., Pontypool
 Turpin, Margaret A., Hull
 †Veitch, John, Peebles
 Wainwright, Desiree, Southport
 Watson, Andrew H., Irvine
 Watson, Jessie K., East Kilbride
 †Watt, James, Huntly
 Whiteoak, Gordon, Rotherham
 Whitworth, Edna V., Stalybridge
 †Williams, Joan, Houghton-le-Spring
 Wilson, Mary, West Hartlepool
 †Wind, Colin C., Chadwell Heath
 Winston, Anthony I., Sheffield
 †Womersley, David M., Manchester
 Wood, Peter, Grange-over-Sands
 †Wood, Robert A., Dundee
 Woodley, Peter J., Plymouth
 †Young, Audrey, Sunderland
 Young, Janet F., Coatbridge, Lanarks

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

Another Penny Antique

SIR,—I was very interested in Miss Anderson's letter (*C. & D.*, August 18, p. 163). I also have just acquired a similar "antique" of like vintage for the same princely sum of one penny, to wit: "A Manual of Pharmaceutical Testing," by B. S. Proctor (Second Edition, 1899), published by THE CHEMIST AND DRUGGIST. Many of the substances for which tests are described have, of course, long since become obsolete, but some are still official. The section detailing practical manipulation, however, contains information as to procedure which is still likely to be of use for improvised testing at the dispensing counter.

Stroud, Kent.

J. C. DREW

Pensions for Proprietors

SIR,—Forgive me for referring once more to this subject. I wrote rather fully on it in May (*C. & D.*, May 12, p. 388); it has been referred to again in your issue of August 4 (p. 119) under the heading "Extent of a Tax Relief." As pointed out, few alterations have been made in the original Bill. You refer only to the advantages of a deferred-annuity scheme as allowed under the new Act. In many cases those advantages are rather illusory. Just one example—a person aged fifty-five (pension at sixty-five) may get tax relief for ten years at 8s. 6d. in the £. His pension may be taxed at the same rate for twenty-five years if he should live to be ninety. Where is the tax-relief benefit? That is an extreme case, perhaps, but there are many intermediate stages. Your article suggests that a busy chemist is able to compare and to decide the best company. I have received prospectuses from several insurance companies and they vary considerably, not only in the figures, but in the conditions. My advice would be to consult a knowledgeable insurance broker who is independent of any one company and to see if one's purpose would not be better served by an endowment policy with a good office. There is the marked advantage (1) that the pension which one would buy with the cash available would be liable to small taxation; (2) there would be full life assurance from the outset; and (3) the policy-holder would have complete control, and not be tied by the irksome restrictions that apply to deferred-annuity contracts in terms of the Finance Act, 1956. I agree entirely with your article in saying that a pension is an important investment and wants careful consideration.

CONSULTANT

Ethics in Pharmacy

SIR,—In Pharmacy, and particularly in retail, the subject of ethics has called forth a lot of words in the past, and is currently well to the fore. It is a human failing to sidestep any subject which is "difficult," and this one

certainly is. Could one not, with advantage, make a start by considering certain fundamentals? Over a wide field outside retail pharmacy, the Law aims to protect the citizen against the misuse of substances dangerous to health. In a frankly commercial field, that protection is "by the letter of the Law" only. There is no margin for personal discretion. The practice of retail pharmacy is acknowledged to be a hybrid, with professional and commercial components. The whole subject of ethics is bound up with the approach of the individual to his job. If "commerce" predominates, he will accept only specific legal enactments as restricting him. If his approach is "professional," he will, wherever possible, attempt to use personal discretion over the now considerable field of substances not as yet covered by legal rulings, electing to place the best interests of his clients before his financial interests. That is, of course, the bed-rock of professionalism. On the

face of it, the attitude of the first group gives them a commercial advantage over the second group. In fact the main body of retail pharmacists no doubt try to work out a practical compromise between the two views. To insist that only legal enactments should govern actions in retail pharmacy might make life easier, and perhaps commercially more advantageous, but to do so would place retail pharmacists flatly in the same field as general commerce and industry, with no element of professional judgment, and thereby remove the last vestige of claim to professional status. Ethical practice must be discretionary, and is, inevitably, the more difficult course to follow, but it must be followed, if pharmacists are to sustain and establish the claim to professional status. Professional conduct, is something which in the last resort is purely individual. It can only develop through individual effort and example.

Bristol.

H. LONG

BRITISH STANDARDS INSTITUTION

Report on work done in 1955-56

THE steadily growing support from industry for the work of the British Standards Institution is shown in the Institution's annual report for the year ended March 31.

The number of subscribing members—commercial firms, trade associations and professional bodies—reached the record figure of 8,650, over 4 per cent. higher than the previous year. The review of the work of the chemical division shows that the division was responsible for the publication of nineteen new standards, six revised, and seventeen amendments. Sixty-nine draft standards were circulated for comment and twenty-seven items of new work were started.

The draft specification on formaldehyde and coal tar types of disinfectant fluid for use in chemical closets has been issued for comment and it is hoped that the standard will soon be ready for approval. Work in hand by the disinfectants committee includes evaluation of aerial bactericides and investigations of methods of tests for disinfectants.

New standards prepared by the fine chemicals committee which have been published include BS. 2710, "Bromomethane," B.S. 2711, Cyclohexanone, B.S. 2712, "Dipentene." Standards for 2-ethoxyethanol and methyleyclohexanol have been prepared and are being published soon. Work in hand by the committee includes the revision of standards for acetone, amyl acetate, carbon tetrachloride, diacetin, diacetone alcohol, ethyl alcohol, ethyl acetate, ethyl lactate, hexachloroethane, methyl alcohol, and isopropyl alcohol, and technical ether. Work is also being done on a standard for formaldehyde solution and paraformaldehyde.

It is hoped soon to issue for com-

ment draft specifications for some two dozen essential oils, e.g., oil of mandarin, West Indian sandalwood, oil of pennyroyal, and oil of patchouli. The revision of the standard B.S. 684, "Methods of Analysis of Oils and Fats," is proceeding satisfactorily and it is expected that a draft specification will soon be circulated. Possible amendments to the linseed oil standard in respect of "foots" and water contents have been considered. Work on the "foots" test is at present in progress.

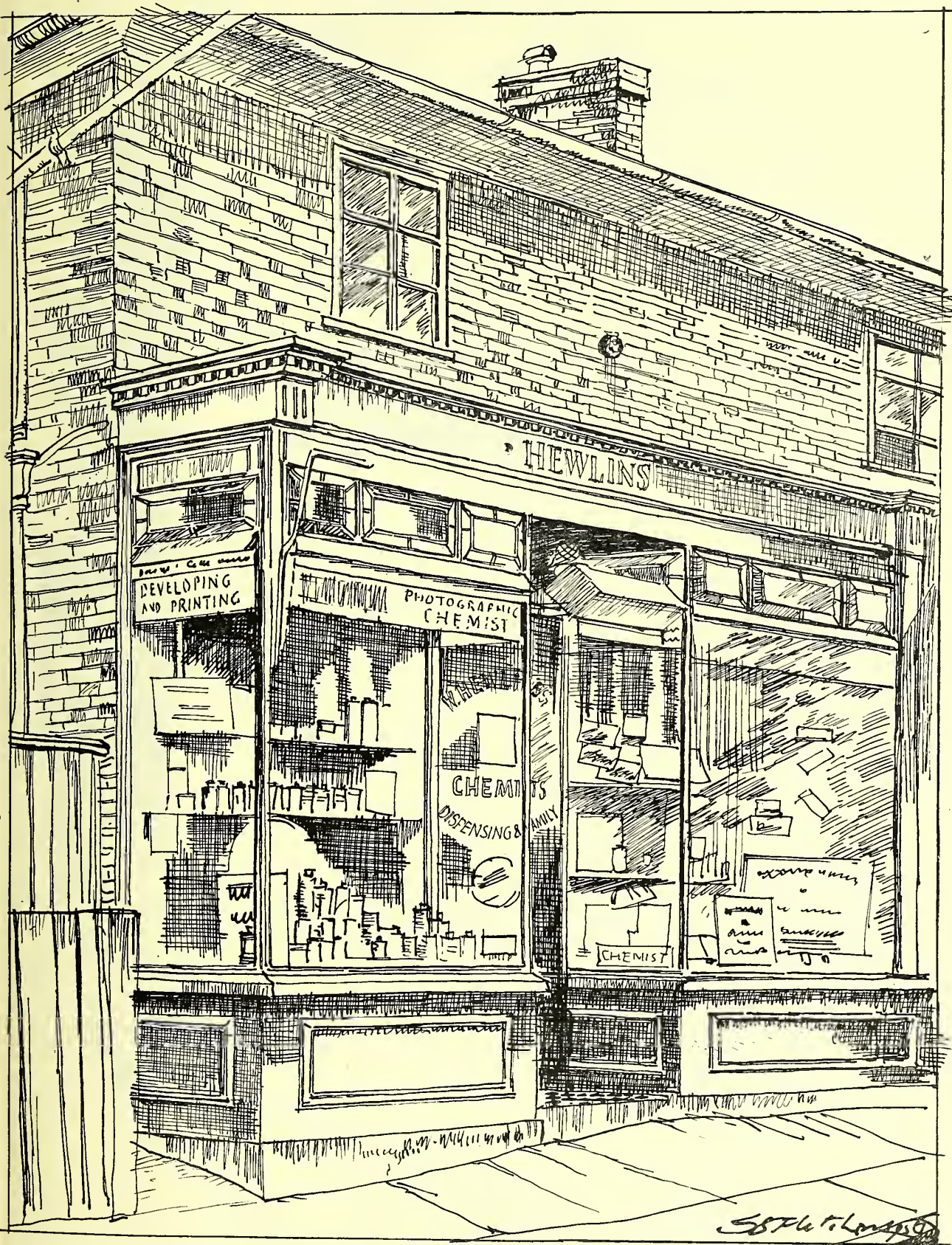
The work of revising the existing parts I and II of B.S. 1831, "Recommended Common Names for Pest Control Products" and of preparing a third list of names has been combined in a general revision of the standard. The revision has been issued for comment and the comments received are under review. Many of the names in the British Standard have received preliminary approval for inclusion in a draft ISO (International Organisation for Standardisation) recommendation.

A new technical committee is being constituted to prepare a British Standard for pyridine.

A draft standard for wooden and metal cupboards for the storage of Dangerous Drugs and poisons in hospital wards and similar places is to be circulated for comment shortly. It is considered that standardisation of the layout of the cupboard will minimise the risk of injection errors and similar mistakes in the administration of drugs because hospital staff, when moved to new posts, will find the Dangerous Drug compartments in the same position in all hospitals.

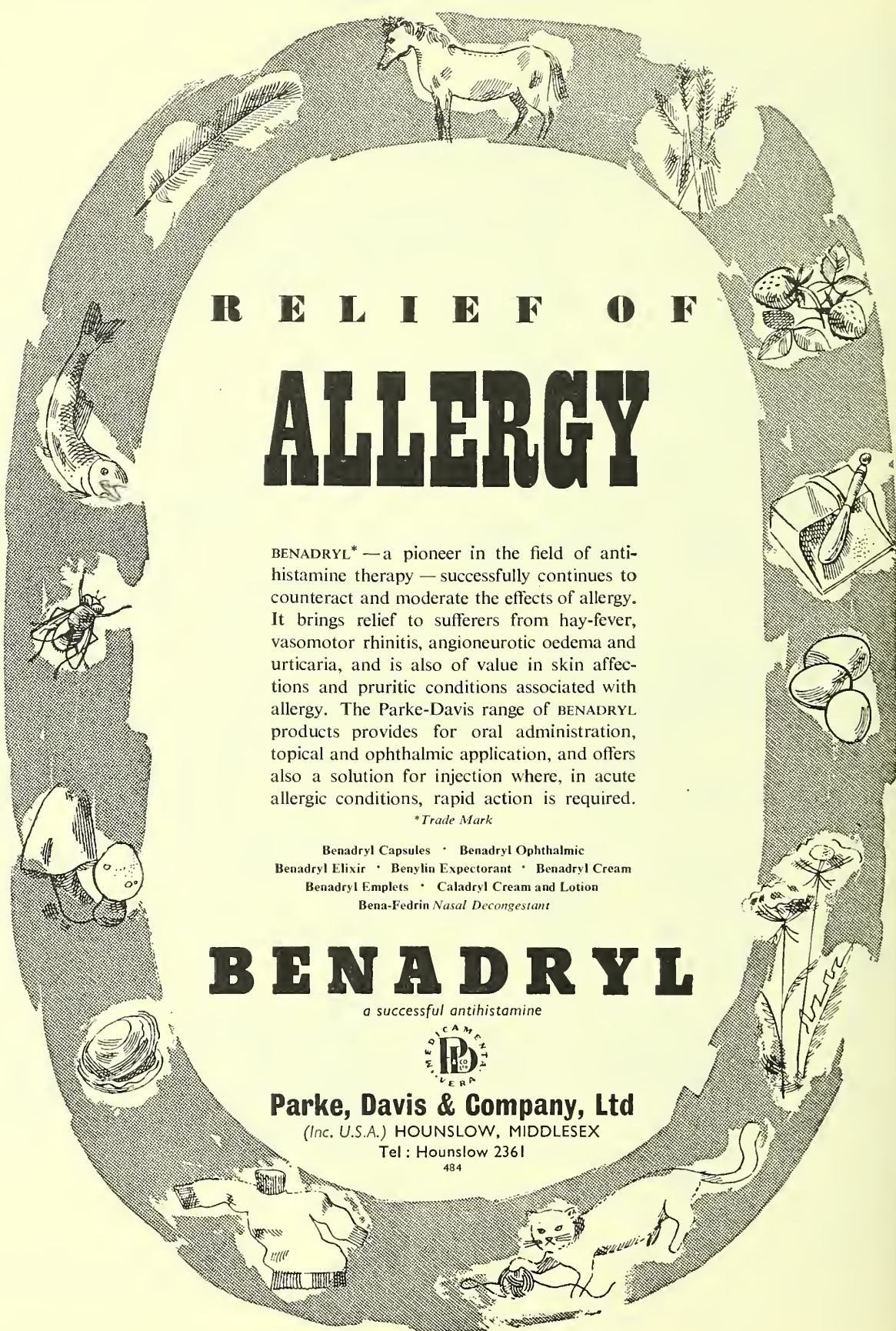
The report is obtainable from the Institution, 2 Park Street, London, W.1, price 5s.

PHARMACIES OF BRITAIN—49



A PHARMACY AT GREAT BOOKHAM, SURREY

The village pharmacy of W. R. Hewlins, Ltd., Great Bookham, Surrey.



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BENADRYL* — a pioneer in the field of anti-histamine therapy — successfully continues to counteract and moderate the effects of allergy. It brings relief to sufferers from hay-fever, vasomotor rhinitis, angioneurotic oedema and urticaria, and is also of value in skin affections and pruritic conditions associated with allergy. The Parke-Davis range of BENADRYL products provides for oral administration, topical and ophthalmic application, and offers also a solution for injection where, in acute allergic conditions, rapid action is required.

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484

The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

ESTABLISHED 1859

Published weekly at

28 Essex Street, Strand, London, W.C.2

TELEPHONE CENTRAL 6565

TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

Two Sides to a Balance Sheet

A PASSAGE in the sixth report of the Committee of Public Accounts makes it abundantly plain that so far as chemists' remuneration is concerned, the Committee sees only one side of the balance sheet. The passage reads:

"... Thus the accountants' reports showed that for England and Wales the out-turn ranged from an average deficit of 10.9d. per prescription for chemists dispensing up to 500 prescriptions a month, to a surplus of 3.9d. for chemists dispensing over 2,000 a month; and that for Scotland the approximately corresponding range was from a loss of 13.8d. to a profit of 8.7d. As it appeared from those figures that the uniform rates of remuneration may have been unduly generous to the larger concerns the committee asked the Ministry of Health whether consideration had been given to a system of remuneration varying according to the number of prescriptions dispensed."

No mention, it will be noted, is made of the contractor to whom the remuneration is less than generous, in fact uneconomic. Is it any wonder that some pharmacists find that they can do better without N.H.S. dispensing? The Health Service is not quite the gold mine that the Public Accounts committee would lead one to believe. That a public body such as Oxford Trades Council (see p. 184) should express surprise that some chemists are not in the Health Service is probably good evidence of prevalent misconceptions about the profitability of Health Service dispensing.

The fact is that the Committee's conclusions on the system of remuneration are based on the false premise that the famous 3.33d. (or 3.7d. or 1.143 or 2.174d.) represents an actual surplus that has at any time justified a cut in chemists' remuneration. None of those figures allows any element of profit on turnover. The Committee admits that, in its report on the English position, and even gives it as a reason for its own inability "at this stage to draw firm conclusions as to the reasonableness or otherwise of the current rates of remuneration." And yet it is confident that the rates paid to the largest chemists are over-generous!

In April 1955 the Department of Health for Scotland was talking of a "tactical" cut in chemists' remuneration of the order of 5 per cent. (about 3d. per prescription). But later the Department beat a strategic retreat—beg pardon, adopted a strategic approach and decided that the object was to achieve an agreed settlement over the whole field. Moreover, the Department belatedly realised that costs in 1955 were higher than they had been in 1952, the year for which the 3.33d.

surplus was calculated and that a cut that might have been applicable in 1952 was unlikely to be justified three years later, especially when "further consideration" no doubt revealed that even a cut in 1952 was unjustified. But the Committee of Public Accounts finds all those arguments "unconvincing." An agreed settlement over the whole field it seems to see as an "imponderable benefit" and a tactical cut as the treatment of choice. That such a cut would be arbitrary in the conditions of either 1952 or today it seems not to have understood or possibly even to care. The committee says, in pressing for a differential system of remuneration, that such a system is necessary if remuneration considered fair and just for the chemist dispensing a small number of prescriptions is not to be given also to the large chemist whose average costs are lower. Does the committee imagine that the small chemist is getting fair remuneration at the moment? Previously quoted remarks of the committee seem to indicate that it does. For it apparently advocates without qualm a cut in chemists' remuneration in a country where some contractors were losing as much as 13.8d. per prescription in 1952. What is fair and just remuneration?

If the Committee's views are so narrow, their value to the Departments concerned must be correspondingly limited. Indeed, can the Departments who have to accept some measure of business morality, be expected to take seriously the Committee's exhortations?

Trading under "Exclusive" Leases

IN developing a shopping site a local authority granted a baker and confectioner a lease under which the shop was to be used for the purpose of the trade or business of "bread and confectionery." Under the covenant entered into, the local authority undertook not to allow that trade to be carried on by others in or upon any adjoining or adjacent premises belonging to them. Premises adjoining the shop were leased at other times to grocers, who had covenanted that they would not, without the previous consent of the authority, carry on any trade or business other than that of grocer.

The purpose underlying all the agreements was to secure the provision, for the benefit of the neighbourhood, of shops carrying on different trades.

What happened in the case under discussion was that the grocers' shops came to sell (in addition to groceries) bread and confectionery, which were regarded in the district as part of the normal trade of a grocer. At neither of the two grocers' shops, however, did the sales of bread and confectionery exceed 2½ per cent. of the total sales. The baker and confectioner brought an action against the authority—as landlords—for breach of covenant, and the authority in turn sued the lessees of the grocers' shops.

The court, however, held that no breach of covenant had been committed. What the covenant prohibited was not the *sale* of bread and confectionery, but *the carrying on of the trade or business* of a bread and confectionery shop—that is, a shop in which substantially only bread and confectionery were sold.

The principle, or something like it, is already familiar to pharmacists through the Pharmacy and Medicines Act, 1941, under which a non-pharmacist may sell pre-packed proprietary medicines provided they do not constitute a substantial part of the business.

Onward from Galen

A CURRENT CAUSERIE

MANY old-established businesses possess relics recalling past methods of medical practice or of dispensing. Two boxes illustrated, both of them pieces of equipment carried round by doctors of about a century ago, are in a collection owned by Mr. W. J. Adcock, chemist, Alcester, Warwicks. The first, a blood-letting outfit, belonged once to a local practitioner: a Dr. Spencer. It comprises two scarifiers, a spirit lamp, bottle, and cupping glasses. In use, the glasses were held against the incision and the vacuum apparently caused the blood to flow more freely. The scarifiers, of two sizes, consist of spring-loaded razor-sharp blades. At the touch of a trigger the blades project through the slits seen. The smaller one on the left has its four blades erect; on the right are slits for ten blades. Apparently the depth of the cut and the speed of cutting—for the same trigger touch can be set to withdraw the blades—was variable, resembling a camera shutter. Blood-letting—of another kind—was provided for in the other and larger box. On the lower right compartment can be seen one of three leech glasses, each a curved tube open at both ends. They were used to lead the leech to the required spot. From the same box the doctor dispensed simple prescriptions on his visits. The square, hand-made bottles still have their original contents, including calomel, antimonial powder, and an outsize bottle of bicarbonate of soda. Glass jars with chamois leather covers contain rhubarb, cough and blue pills. Folding scales of brass are in the far left lower compartment. Under the sliding drawer are a glass pestle and mortar.



A YEAR after its foundation a dispenser was appointed to the Royal Northern Hospital (then the Great Northern Hospital). "But," states Dr. Eric C. O. Jewesbury in his centenary history *The Royal Northern Hospital, 1856-1956*, just published, "it was unanimously decided that he should not prescribe." His salary was to be £30 per annum, which was £10 a year more than that of the first matron, who was also appointed in August 1857. By 1859 the new hospital—which owed its formation to a doctor's Pygmalion adjective and a slap on a patient's bottom—had become so well established that a concert to raise funds was held under the immediate patronage of Queen Victoria, the Prince Consort and other members of the Royal Family. It is not recorded how much money was raised, but a year later the hospital debt had increased to £1,200 and, as if in anticipation of present day moans about drug bills, about a quarter of that sum was owed on drugs. The hospital moved to its present premises in Holloway Road in 1888, and until 1925 part of the site was occupied by Plowman, Barrett & Co., brewers: the hospital dispensary stores are situated in what are easily recognisable as the original storerooms. The present dispensary waiting room used to be the hospital's venereal disease department. In 1936 a special appeal for funds brought a gift of £14,200 from Beecham's Pills, Ltd., for the building of a new combined department of pathology, bacteriology, biochemistry and pharmacy, and a promise of £1,000 a year towards its upkeep. The foundation stone of the Beecham Laboratory was laid by Mr. Philip E. Hill, then chairman of Messrs. Beecham's, in December 1936, and opened the following year. A paragraph in this history is devoted to a reference to Mr. Herbert Skinner, who retired

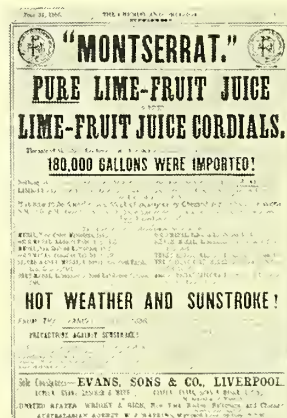


Above: Blood-letting outfit equipped with scarifiers, cupping glasses, lamp and bottle. Left: Kit containing leech glasses, scales, pestle and mortar, drugs, etc. Both cases are in the possession of Mr. W. J. Adcock.

from the post of chief pharmacist in 1939 after nearly forty-three years' service. He had come to the Great Northern from Guy's in 1896, and was president of the Pharmaceutical Society, 1927-29, chairman of the British Pharmaceutical Conference in 1932, and later chairman of the Committee for the Revision of the British Pharmaceutical Codex. So that he should retain his association with the Royal Northern Hospital on his retirement, the management committee appointed him consulting pharmacist. He was succeeded as chief pharmacist by Mr. A. E. Footitt, the present head of the department.



A CONTRAST in advertising styles is provided by the first and third cover pages of a recent issue of the *Evans Medical Gazette*. Both are for lime-juice soft drinks but the left-hand illustration is taken from the July 31, 1886, issue of *THE CHEMIST AND DRUGGIST*. It gives plenty of information



but makes no concession to human weakness by any attempt to whet the appetite. The right-hand advertisement relies entirely on its seductive illustration and such "copy" as can be read on the label of the bottle. Granted that the C. & D. page was not supposed to reach the public, the more enlightened among the advertisers of such a product today would have a go at making the chemist a personal buyer as well as a trade seller.

HOSPITAL PHARMACY FORUM

RESEARCH IN HOSPITAL PHARMACY

INCREASING emphasis is being placed on research in hospital pharmacy. It is encouraging to note that, over the past few years, regular contributions to the British Pharmaceutical Conference have been made by hospital pharmacists. In Dublin this year, hospital pharmacists are concerned in four of the papers to be read at the Conference science sessions.

The conduct of research in hospital pharmacy presupposes the existence of the necessary facilities and staff. In that connection, the Linstead Report drew attention to the desirability of providing the time and equipment necessary for the pharmacist to undertake investigation and inquiries into "matters which are of profit and interest to the hospital service generally."

The pharmacist undertaking research should be in a position to attend the Conference regularly and he should not be expected to defray the whole cost out of his own pocket. Hospital Boards and Management Committees need to take a more sympathetic view of the importance to the hospital pharmacist of attendance at the Conference.

Endowment Funds for Research

In a number of hospitals, endowment funds inherited from the days before the National Health Service, are being devoted to the encouragement of medical research. In those hospitals where they exist, a part of those funds could well be spent in encouraging and developing pharmaceutical research. Hospital pharmacists should seek the backing of their medical committees for special grants to enable them to provide research facilities within the hospitals.

The facilities available will obviously determine the scope of the investigations undertaken but there are many problems which arise in the course of daily practice which are capable of investigation with only a minimum of expensive apparatus. An inquiring mind and critical approach are more important than formica-topped benches, useful and elegant though those may be in certain circumstances. By demonstrating his ability to undertake such investigational work the hospital pharmacist may then hope to impress upon his management committee the necessity to improve and enlarge his facilities for research.

The hospital pharmacist is in a unique position to obtain the co-operation of the medical staff and many interesting problems may arise in formulating preparations for specific medical needs. Sometimes the commercially available preparations are not suitable for the particular medical purpose concerned. In such circumstances, the hospital pharmacist can formulate a preparation to meet the needs of the doctor.

The availability of many of the new drugs as pure substances is sometimes a difficulty and the reluctance of manufacturers to release those substances is an obstacle to the development of research in hospitals. However, it is encouraging to note that a number of firms have recently made antibiotics and corticosteroid hormones available to hospital pharmacists. Most manufacturers will supply small quantities of their products for specific research needs.

In handling new drugs, careful attention should be paid to the published information on their stability and activity in the presence of other substances. The original manufacturer is usually willing to give additional information to assist the hospital pharmacist. In developing research of that kind, the hospital pharmacist can establish new contacts with his colleagues in the pharmaceutical industry and most useful co-operation to the benefit of both can be established.

Other problems of a more fundamental character may arise from changing medical practice and the development

of new techniques in medicine. Just as the use of parenteral therapy produced new problems in pharmaceutical formulation and preparation, so today the use of radioactive substances is creating new problems in dispensing. It is interesting to recall that much of the fundamental work on the sterilisation of pharmaceutical preparations was performed in hospital pharmacy. It is to be hoped that the hospital pharmacist will play an equally important part in devising the techniques necessary to produce radioactive preparations suitable for use in medical treatment and diagnosis. Such research will necessitate close co-operation with the physicist. In this way, the hospital pharmacist comes into contact with other scientific workers in the Health Service and in so doing, establishes a proper place for hospital pharmacy in the wider field of medical research.

Staffing remains a chronic problem in hospital pharmacy and will not be solved until the major issue of remuneration has been satisfactorily settled. However, research can play its part in attracting to hospitals the graduates now leaving the pharmacy colleges. The honours degree, with its provision for one year of more specialised study is producing a graduate who is well equipped to take part in pharmaceutical research. In accepting post-graduate students for their statutory year's training, hospital pharmacy needs to give them not only the opportunity of obtaining the experience necessary to become registered but should also, at least in the larger hospitals, afford them an opportunity of an insight into the wider fields of investigation and research. Hospital pharmacy may then be able to attract and retain a number of the best of the graduates in pharmacy. Moreover, the recently published regulations for admission to the Society's Fellowship should serve as a further impetus to hospital pharmacists to take part in research.

In the past, pharmacists have made notable contributions to the main body of scientific knowledge. In remembering a past of which they can be justly proud, hospital pharmacists can look to the future with confidence that their contributions may be just as great.

NEW BOOKS

Scale of Standard Railway Charges

Railway Shipping & Publishing Co., Ltd., 12 Cherry Street, Birmingham, 2. 11 x 8½ in. Pp. 47. 20s.

THIS is a completely revised edition published to cover the 5 per cent. and 7½ per cent. increases of railway charges which came into force earlier this year.

The rates shown cover all classes of goods in classes 1 to 20, and in addition to the station to station rates, the collected and/or delivered rates are also shown for classes 11 to 20. Any present-day Standard rates may be obtained at a glance for any destination up to 730 miles.

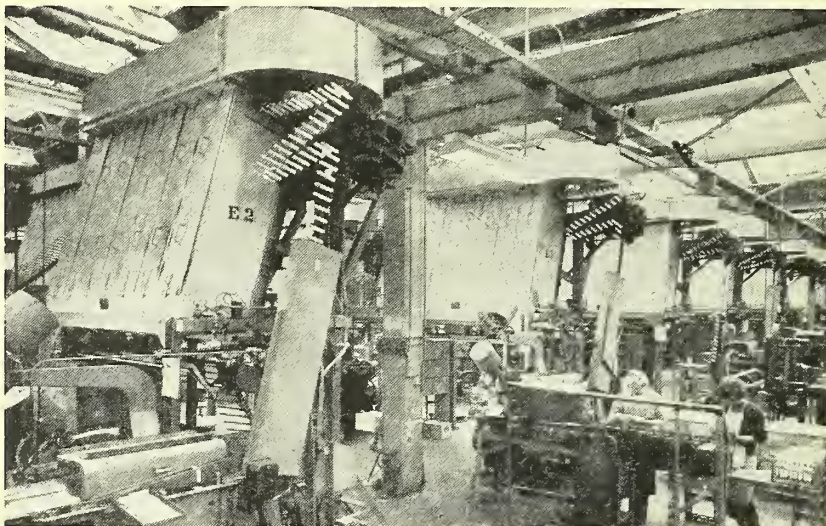
The Manufacture of Glycerol

G. MARTIN, D.Sc., Ph.D., F.R.I.C., revised in this the second edition by H. J. STRAUSS, M.A., D.Phil., F.R.I.C. *Technical Press, Ltd.*, 1 Justice Walk, Lawrence Street, London, S.W.3. 10 x 6½ in. Pp. 219, 84s.

ARRANGED along the lines of the first edition which was first published in 1926 this revised edition also incorporates the latest references to modern research papers, patents, etc. A new chapter is added to deal with synthetic glycerin which also includes the most recent developments in that field, its production from the chemical action of hydrogen peroxide on acrolein. Among other additions to the second edition is a description of the purification of glycerin by ion-exchange. Those interested in statistics will find a chapter (iii, section iv) with tables of U.K. production, imports and exports and similar but more extensive figures for the United States.

TUBES BY CONTINUOUS FLOW

Automation in action at a collapsible-tube factory



A PRACTICAL demonstration of the application of automation to industry is provided by a visit to the collapsible-tube factory of Venesta, Ltd., Silvertown, London, E.16.

In the making of a collapsible tube from the "dump" or slug of metal, six distinct operations are involved:—

(1) **EXTRUSION.** The dump of metal is fed into a die and the punch then enters. The impact forces the metal out between the die and the punch, it flows up the punch, and the walls of the tube are thus formed. The nose of the punch and the foot of the die are shaped so as to form the nozzle and shoulders of the tube;

(2) **TRIMMING AND SCREWING.** The nozzle is trimmed and threaded to take the cap and the base of the tube is cut to length and rolled flat;

(3) **ENAMELLING.** Enamel is applied to the tubes by rollers, and the tubes are then placed in an oven for stoving;

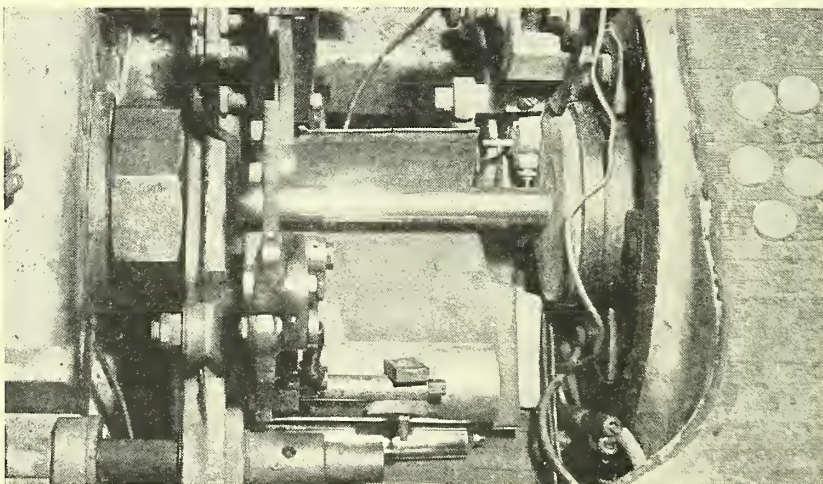
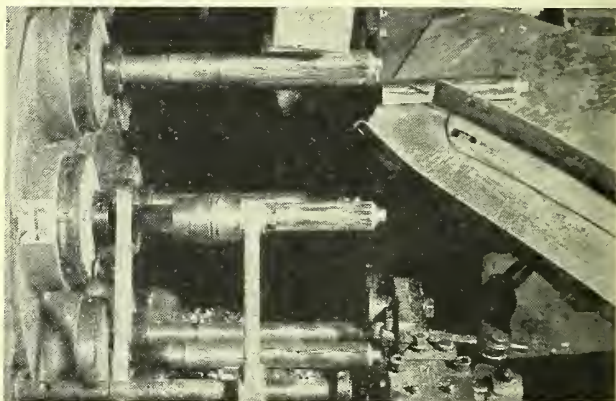
(4) **PRINTING.** The manufacturers' design is ink-printed on the enamelled surface. The print is then dried in ovens;

(5) **CAPPING.** The tube gets its screw cap; and

(6) **INSPECTION AND PACKING.**

Under the batch system of production, machines performing identical operations—extrusion, capping, etc.—are grouped in separate sections and the tubes are carried by hand from one machine to the next and positioned and removed by hand. In the flow-line system machines performing successive operations are grouped in line so that the tube in the course of its manufacture is conveyed by continuous-peg conveyor from one machine to the next. The positioning of the tube on each machine is automatic; no operative is called for.

Only for small orders or runs, where

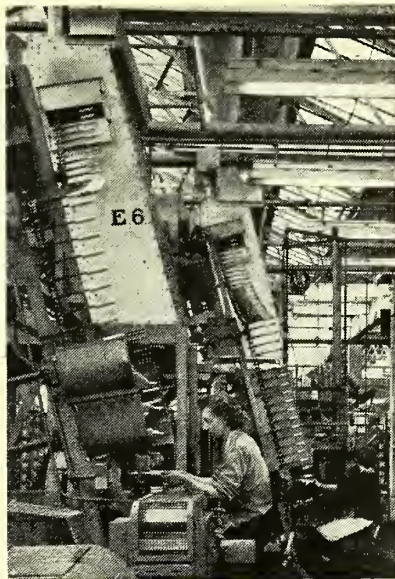
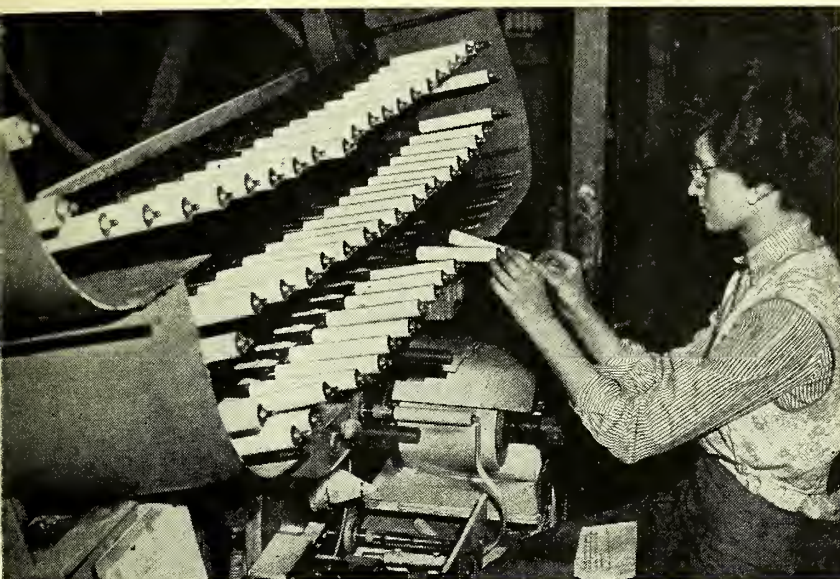


Top of page: Some Venesta flow-line units. Above: View from above horizontal extrusion press showing extruded "dump" travelling up the forcer in form of a tube. Centre: On this machine the tube is automatically trimmed and the thread rolled. As the arbor plate revolves six operations are performed. First, the tube is automatically loaded on to the arbor; second, the thread is rolled and surplus nozzle metal trimmed off; third, nozzle face is cleaned up; fourth, base of tube is rolled and trimming separated; fifth, tube is released from driving nipple; and sixth, is automatically stripped from arbor.

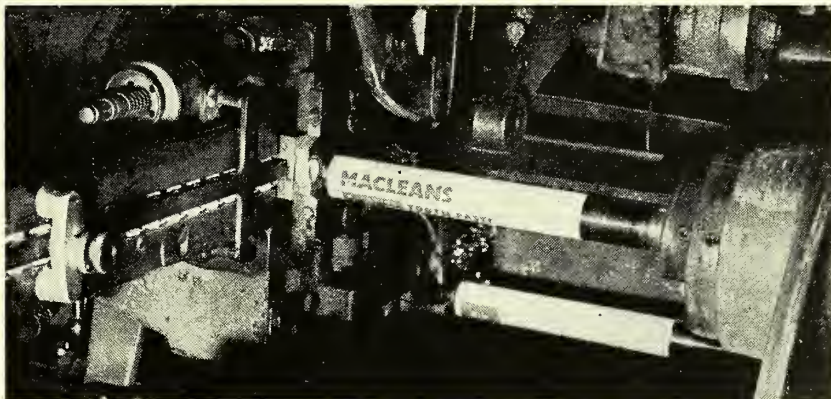
continuous-flow methods would be uneconomic, is the batch system of production retained at the factory. The main effort is concentrated on the flow-line system.

"Dumps" are carried to the extrusion press and fed into a hopper with a capacity to keep the press going at normal production rate for two hours. A stripper control gear, designed by the company, places the tube, after it has been formed from the extruded dump, upon a belt-conveyor. An automatic device loads the tube on to an arbor of the screwing machine. The arbor is one of a number of spindles that protrude horizontally from a revolving plate. In one revolution of the plate the tube is threaded, the nozzle trimmed and the tube base cut to length. The tube is automatically ejected from the arbor, slid down a chute from which it is conveyed either to the annealing oven or to the enamelling machine.

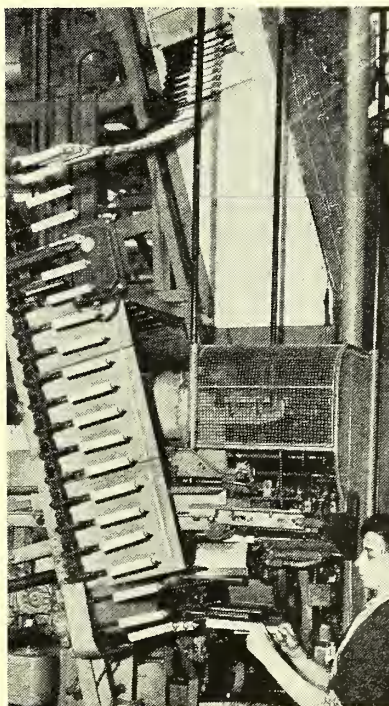
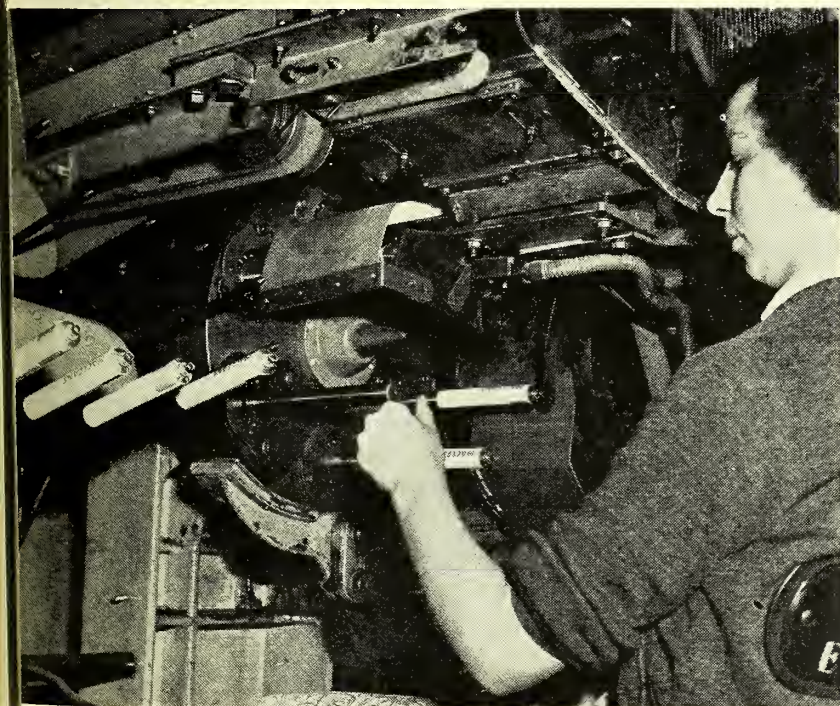
In the process as operated at Silvertown, enamelling is from the loading of the extrusion press hopper, the first



stage at which an operator is necessary. Tubes on arbors are enamelled by contact with the enamelling roller, taken off the arbors by hand, two at a time, and placed on peg conveyor to be taken to the overhead stoving oven. After stoving, the tubes are conveyed to the offset rotary printing machine where the tubes, still in "tacky" condition to ensure better bonding surface for the inks, receive the manufacturers' design and legend in one, two, three or four colours. After printing, a second operator removes the tubes from their arbors, places them on peg conveyor to be taken to the overhead print drying ovens. The dried tubes pass through a fan-cooled tunnel on their way to the automatic capping machine.



Top of page: Tubes being enamelled by contact with the enamelling roller, taken off by hand, two at a time, and placed on peg conveyor for transporting to overhead stoving oven. Above: View of automatic capping machine. Below: Printed tubes being transferred from printing arbors to peg conveyor which carries them to print-drying oven overhead.

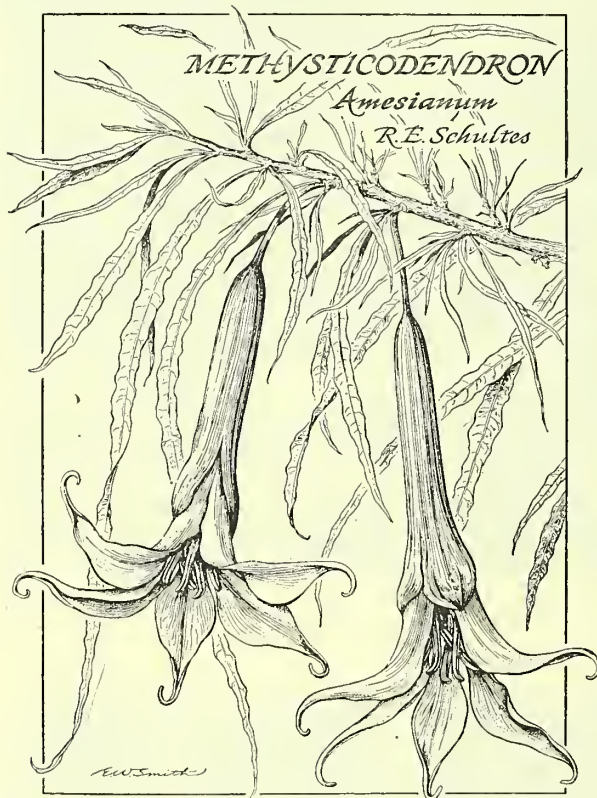


A POWERFUL NEW NARCOTIC

An American botanist's Andes "discovery"

A TREE which Indians of the Valley of Sibundoy, in the Colombian Andes of South America, cultivate for use as a narcotic is the subject of a monograph by R. E. Schultes published in 1955 (*Botanical Museum Leaflets*, Harvard University, U.S.A., 17. 1. 55).

Examination of flowering material from the tree seemed to show that the tree should be placed in a new genus of solanaceous plants close to the *Brugmansia* group of *Datura*.



METHYSTICODENDRON AMESIANUM R. E. Schultes. Habit of flowering branch. About one-half natural size.

Methysticodendron amesianum, R. E. Schultes, is a small tree suggestive of some of the larger tree species of *Datura*, but with a number of characters not normal to solanaceous plants. It is described as by far the strongest of the many narcotic plants of the region. The intoxication it gives is resorted to by witch doctors only for important or difficult cases of divination, or therapy. It lasts usually for two full days and may last for four, and includes a long period of complete lack of consciousness. It would appear that the leaves are gathered not more than an hour before the narcotic drink is taken, crushed and cold-infused for half an hour. Just before the draught is to be taken leaves and infusion are slightly heated and agitated; the liquid is then strained. Over a period of two to three hours a quantity of up to a large cupful is taken in order to achieve a state of frenzy. Medicinally, tumours and swellings are treated with a sort of plaster made by heating leaves and flowers in water. For chills and fevers the body of a patient is sometimes bathed with a warm decoction of the leaves and flowers before being smeared with lamb fat on chest, back and abdomen.



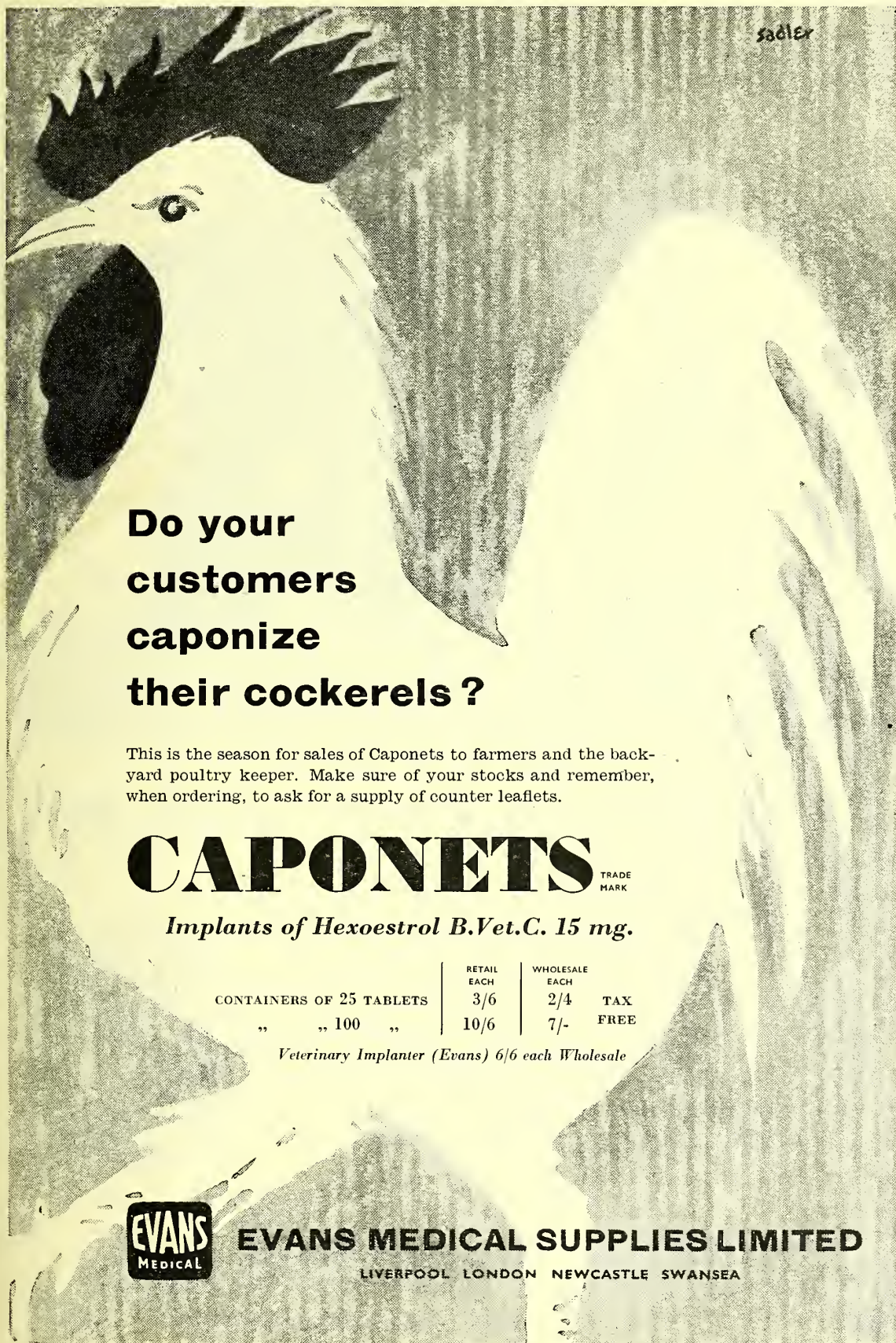
The plant in flower, Sibundoy, Colombia.

The active constituent appears to be an alkaloid or alkaloids similar to hyoscyne and hyoscyamine. Features of *Methysticodendron* that make it unlike other solanaceous plants are a deeply lobose corolla divided for three-fifths to four-fifths of its length; a wholly enclosed tubular portion of the corolla; and narrow, ligulate leaves. Its ovary has three conduplicate carpels with three free styles. The author speculates that the plant may be a primitive representative of the order surviving in a high Andean region "known to be a repository of many curious endemics."

RECENT RESEARCH

ALKALOIDS OF POLISH LYCOPodium

ACHMATOWICZ and Rodewald describe experiments on the isolation of alkaloids from *Lycopodium selago* of Polish origin (*Roczn. Chem.*, 1956, 30, 1). The plant, collected in July and August, was found to contain 0.164 per cent. (dry weight) of crude alkaloid, of which 0.072 per cent. (or 44 per cent.) was obtained in a crystalline state. The following alkaloids were isolated:—Lycopodine, described by Achmatowicz and Uzieblo as the chief alkaloidal constituent of *Lycopodium clavatum*; acrifoline, isolated by Bertho and Stoll from *Lycopodium annotinum* of German origin; alkaloid L8, previously found by Manske and Marion to occur in *Lycopodium annotinum* of Canadian origin; and an isomeride of clavatine, which is either a new substance or identical with alkaloid L23, isolated by Manske and Marion from *Lycopodium lucidulum* Michx. That alkaloid has been designated as pseudoselagine. Pseudoselagine possesses basic properties; it is soluble in dilute acids, from which it is precipitated by excess of ammonia or other alkalis. It is toxic, bitter to the taste and laevorotatory. Solutions of pseudoselagine in dilute hydrochloric acid form precipitates with the usual precipitants for alkaloids. The base gives colour reactions. Pseudoselagine contains neither OCH_3 nor NCH_3 , and OH and NH groups are also absent. It is not hydrogenated in presence of palladinised charcoal and is indifferent to the carbonyl group. It is not attacked by boiling ethanolic potassium hydroxide. It forms a hydrochloride, m.p. 307°; a hydriodide, m.p. 314°; a perchlorate, m.p. 295°. It also forms a methiodide, m.p. 279° and a methochloride, m.p. 268°, and both those derivatives exhibit the properties of quaternary ammonium salts.



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customers
caponize
their cockerels ?**

This is the season for sales of Caponets to farmers and the back-yard poultry keeper. Make sure of your stocks and remember, when ordering, to ask for a supply of counter leaflets.

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CONTAINERS OF 25 TABLETS	3/6	2/4	
" " 100 "	10/6	7/-	FREE

Veterinary Implanter (Evans) 6/6 each Wholesale

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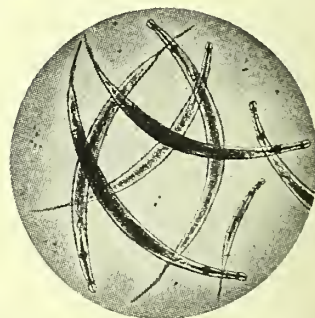
Agents in Glasgow : The New Apothecaries Co. Ltd.



Children like it... worms don't

One week's treatment with 'Antepar' Elixir is usually sufficient to eradicate *threadworms*. A single dose clears *roundworms* from the gut. Effective without fasting, purging or supporting measures, 'Antepar' acts by paralysing the worms—they are then expelled by normal peristalsis.

'Antepar', the original elixir of piperazine, is well tolerated by patients of all ages. Its pleasant taste is popular with children. Containing piperazine citrate equivalent to 500 mgm. of piperazine in each fluid drachm, 'Antepar' is supplied in bottles of 4 fl. oz. and 20 fl. oz.



'ANTEPAR' ELIXIR



BURROUGHS WELLCOME & CO. (THE WELLCOME FOUNDATION LTD.) LONDON

Associated Houses:

AUCKLAND BOMBAY BUENOS AIRES CAIRO DUBLIN JOHANNESBURG KARACHI MONTREAL NAIROBI NEW YORK RIO DE JANEIRO ROME SYDNEY

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, AUGUST 22: Demand for both CRUDE DRUGS and ESSENTIAL OILS was very restricted during the week particularly on home account. The lack of supplies of a number of commodities continued to give firmness to any parcels that were available.

A small quantity of French GENTIAN was offered at 185s. per cwt. on the spot. Quotations for Cape ALOES for shipment continued to be received only at spasmodic intervals. MERCURY was slightly lower at £83 15s. per flask (against £84 10s.). QUILLARIA was available on more favourable terms on the spot and Jamaican SARSAPARILLA eased slightly upon receipt of lower offers from origin. LIQUORICE whole root remained in short supply but more varieties were again quoted. Amongst SPICES, CINNAMON quills were reduced for shipment but CLOVES were slightly firmer in all positions. Spot holders of Jamaican GINGER advanced their quotations by 35s. a cwt., whilst there were said to be no stocks left at origin. Some good quality Alexandrian SENNA PODS were available on the spot. Tinnevely senna leaves shipped from the port of Tuticorin during July were said to have been of good colour and size but present arrivals at the warehouses contain smaller leaves although a good colour is maintained. The prices of leaves and pods are showing an upward tendency there. The following are the shipments of Senna during July from Tuticorin:—

	U.K.	U.S.	EUROPE
SENNA	Tons	Tons	Tons
LEAVES	47	40	116
PODS	26	2	30

ERGOT for shipment is now fully 7s. 9d. per lb., c.i.f. against 5s. 10d. recently; no East European material is being offered at source and spot supplies have been cleared. CASCARA SAGRADA prices showed considerable disparity. Most BALSAMS were dearer on the spot—Canada by 2s. per lb. and genuine TOLU by 1s. 6d.

Lemongrass Oil Dearer

LEMONGRASS provided the major feature in the essential oils market; quotations for near shipment rose by 2s. per lb. The spot price did not react to the same extent as a fairly large parcel was reported near at hand.

No important price changes occurred in PHARMACEUTICAL CHEMICALS. Although THEOPHYLLINE is now subject to Key Industry Duty (see C. & D., August 18, p. 159) no rise is expected in the price for some time. Future price policy of chemical manufacturers following the Restrictive Trade Practices Act is expected to be defined shortly. The prices of BORAX and BORIC ACID are being increased by £1 per ton from October 1 to partially offset higher servicing rates (principally an advance in ocean freight). Meanwhile a leading producer of PEROXIDES and BARIUM COMPOUNDS has announced that the company will not increase its prices before March 31, 1957.

Pharmaceutical Chemicals

AMMONIUM ACETATE. — 1-cwt. lots of B.P.C. are quoted at 3s. 9d. per lb.

AMMONIUM BICARBONATE. — The B.P. powder is £50 5s. per ton; CARBONATE is £81 10s. for lump and £85 10s. for powder, all delivered terms.

BORAX. — Prices for B.P. grade for quantities of 1 ton and upwards, are as follows:—Granular, £50; crystals, £52 10s.; powder, £53 10s.; extra fine powder, £54 10s. per ton. Prices of commercial range from £40 to £45 10s. per ton, as to type and packing. Dehydrated borax is £61 10s. per ton in paper-lined hessian bags or £60 10s. in paper bags; carriage paid in Great Britain. Usual surcharges for smaller quantities. All basic prices are being increased by £1 per ton on October 1.

BORIC ACID. — Prices for B.P. grade in quantities of 1 ton and upwards are as follows:—Granular, £83; crystal, £90; powder, £87 10s.; extra-fine powder, £89 10s. per ton, in 1-cwt. lined hessian bags carriage paid in Great Britain. Surcharges for smaller quantities: Less than 1 ton but not less than 5 cwt., 1s. per cwt., 3 cwt., 2s.; 1 cwt., 3s. All basic prices are being increased by £1 per ton on October 1.

BROMIDES. — POTASSIUM, B.P., crystals in 5-cwt. lots are 2s. 11½d. per lb.; 1-cwt., 3s. 0½d. per lb. Powder is 1½d. per lb. more. AMMONIUM is 3s. 1d. per lb. in 5-cwt. lots and SODIUM, 2s. 10½d. per lb.

CALCIUM SUCCINATE. — Quotations are from 10s. 6d. to 12s. 6d. per lb., as to quantity. SUCCINIC ACID is from 10s. 6d. to 12s. 3d. per lb.

CARBOMAL. — B.P.C. is 21s. per lb. delivered in returnable packing.

CHLOROXYLENOL. — B.P. quality is 5s. 9d. per lb. for 1-cwt. lots, and 5s. 7d. for 10-cwt.

CITRIC ACID. — Quotations (per cwt.) for domestic material are 205s. for 1-4 cwt. lots and 200s. for 5-cwt. lots.

CREOSOTE. — B.P. quality ex beechwood, is from 6s. 9d. to 7s. 6d. per lb.

ERGOTOXINE ETHANESULPHONATE. — Price per gm. for B.P.C. (1949) is: 1 gm., 168s. 9d.; 10 gm., 155s. 3d.

ETHER. — Prices (per lb.) in winchesters are as follows:—TECHNICAL, B.S.S., and SOLVENT, 5-cwt., 2s. 5d.; 10-cwt., 2s. 4d. ANÆSTHETIC, B.P., 5-cwt., 3s. 10d.; 10-cwt., 3s. 9d. In drums prices are 4d. per lb. less than above.

FERROUS GLUCONATE. — B.P.C. is 6s. 6d. per lb. in 1-cwt. lots.

HEXAMINE. — B.P. is 1s. 11½d. per lb. for 1-ton lots, delivered in 1-cwt. kegs (1s. 11d. in paper bags). Technical is one penny per lb. under those rates.

MAGNESIUM HYDROXIDE. — Makers' prices for B.P.C. are, 1-cwt. lots, 3s. 5d. per lb. and 1-ton, 3s. 2d. per lb.

MAGNESIUM PEROXIDE. — Price (per lb.) for 1-cwt. lots of B.P.C. (15 per cent.) is 3s. 11d.

PARALDEHYDE. — In 40-gall. drum lots the stabilised is 163s. per cwt. and the technical, 136s.

POTASSIUM BICARBONATE. — B.P. powder is 110s. per cwt. for 1-4 cwt. lots and 105s. per cwt. for 5-cwt. and over.

SALICIN. — Price quoted is 18s. 6d. per oz.

SALOL. — Quotations for B.P.C. are about 9s. per lb. for 1-cwt. lots.

SODIUM ACETATE. — B.P.C. in 28-lb. lots is 2s. 1½d. per lb.; 1-cwt., 1s. 10d. per lb.

SODIUM PERCARBONATE. — Prices (per cwt.) about 166s. 9d. (bags, 7s. 6d. lower) for minimum 12½ per cent. available oxygen.

THYMOL. — In 7-lb. lots the price is 15s. 9d. per lb.; 28 lb., 14s. 6d.

Industrial Chemicals

ACETALDEHYDE. — The 100 per cent. is £142 per ton.

ACETATES. — Prices (per cwt.) for drum lots are as follows:—AMYL (technical), 250s. and B.S.S., 252s. BUTYL (B.S. 551: 1950), 171s.; ETHYL (B.S. 553: 1950), 141s.; ISOPROPYL, 140s.

ACETONE. — Drum lots are quoted at £90 per ton.

BENZOLE. — Thiophene-free is from 9s. 0½d. per gall. for one 50-gall. barrel and pure, 6s. 0½d. per gall. for similar lots.

N-BUTYL ALCOHOL. — 2-ton lots are quoted at £159 per ton and one-drum lots at £163 per ton. Secondary is £135 and £139. All in one delivery.

CARBON TETRACHLORIDE, B.P.—1-2 carboy lots are £124 per ton. TECHNICAL, in 40-gall. drums, in less than 1-ton lots, is £81 per ton; 1 ton and under 2 tons, £79 10s.; 2 tons and under 4 tons, £79; 4 tons and upwards, £78.

DIMETHYL ACETATE. — Drum lots are quoted at 163s. per cwt.

ISOPROPYL ALCOHOL. — Standard grade is £80 10s. per ton (5s. 7½d. per gall.) in 10-ton lots. Essence grade is from 16s. 3d. to 19s. per gall., as to quantity.

METHYL ETHYL KETONE. — One-ton lots are quoted at £135 per ton.

METHYL ISOBUTYL CARBINOL. — Minimum price (10-ton lots in one delivery) is £135 per ton.

METHYL ISOBUTYL KETONE. — One-ton lots are £161 per ton with usual differentials for smaller quantities.

NAPHTHALENE. — Home market prices (per ton for 4-ton lots at one time) are slightly dearer as follows:—CRUDE WHIZZED, c.p. 74-77.5° C., £25 7s. 6d. to £30 17s. 6d., according to the crystallising point, ex works; HOT-PRESSED, minimum c.p. 77.6° C., £42 ex makers' works; CRYSTALS from £61 7s. 6d. to £63 17s. 6d., delivered; BALL and FLAKE £69 17s. 6d. to £72 8s. 6d. delivered. The approximate export prices (f.o.b.) for 25-ton lots are from £42 to £46 for the crude whizzed; £50 to £52 for hot-pressed, while crystals are £67 10s. and ball and flake both £76 per ton, including bags.

PHTHALATES. — Prices (per lb.) for drum lots are as follows:—DIAMYL, 3s. 3d.; DIBUTYL, 2s. 1½d.; DI-ISOBUTYL, 1s. 11d.; DIETHYL (normal grade), 2s. 1d.; (perfumery grade), 2s. 6½d.; DIMETHYL, 1s. 10½d.

STEARATES. — Prices for minimum 1-ton lots are now as follows:—ALUMINIUM (all grades), 250s. 6d. per cwt.; CALCIUM (precipitated), 228s. 10d.; LEAD (30 per cent.) 232s. 6d.; MAGNESIUM (standard), 262s. and (superfine), 292s.; ZINC, B.P., 283s.

TITANIUM DIOXIDE. — Anatase is now £154 per ton and rutile from £164 to £172 as to grade.

Alcohol

PRICES of plain BRITISH SPIRIT per proof gall. are as follows:—

Ethyl Alcohol. (95 per cent. Gay Lussac, 66 o.p.); where the number of proof gall. taken over any one year ended December 31 is 300,000 or over the price is 2s. 11½d.; 200,000 and less than 300,000, 2s. 11¼d.; 100,000 and less than 200,000, 3s. 0¼d.; 50,000 and less than 100,000, 3s. 0¾d.; 10,000 and less than 50,000, 3s. 1¼d.; 2,500 and less than 10,000, 3s. 1¾d. Prices are exclusive of duty and are for tank wagon lots.

The following grades are subject to a premium on the above prices as follows:—**Absolute Alcohol**, 99.5 per cent., 74.5 o.p., 3d. more per proof gall., the special high strength (99.9 per cent., 72.2 o.p.), 5d. more; **Doubly-Rectified Alcohol (S.V.R.)**, 95.8 per cent., 68 o.p. is 4d. more and **P.I. Rectified Alcohol**, 96.1 per cent., 68.5 o.p., 8d. more. **R. R. Absolute Alcohol** (re-rectified, 99.7 per cent., 75 o.p.), 12s. 6d. per bulk gall. net.

Methylated Spirits

METHYLATORS' rates per bulk gall. in Great Britain are as follows:—

Industrial Methylated spirit: Strength 61 o.p., 500 gall. and over in one delivery, 5s. 3¼d.; 100 gall. and under 500 gall., 5s. 6¼d.; 30 gall. and under 100 gall., 5s. 9¼d.; 10 gall. and under 30 gall., 6s. 2¼d.; 5 gall. and under 10 gall., 6s. 7¼d. Strength 64 o.p., 1d. per gall., 66 o.p. (B.P.), 2d.; 68 o.p., 2¼d. more than the above rates with 74 o.p. at 6s. 1d. per gall. in lots of 500 gall. Tank wagon delivery is 1¼d. per gall. off list price—minimum, 500 gall. For industrial methylated spirit of standard toilet quality prices are from 5s. 10¼d. for 500 gall. to 7s. 2¼d. for 5-10 gall. of 61 o.p.

Pyridinised industrial methylated spirit: Strength 61 o.p., 500 gall. and over, in one delivery, 5s. 6¼d.; 100 gall. and under 500 gall., 5s. 9¼d.; 30 gall. and under 100 gall., 6s. 0¼d.; 10 gall. and under 30 gall., 6s. 5¼d.; 5 gall. and under 10 gall., 6s. 10¼d. Strength 64 o.p., 1d. per gall. more than foregoing rates.

Mineralised methylated spirit: Strength 61 o.p. in one delivery, 100 gall. and under 500 gall., 5s. 11d.; 30 gall. and under 100 gall., 6s. 2d.; 10 gall. and under 30 gall., 6s. 7d.; 5 gall. and under 10 gall., 7s. Strength 64 o.p., 1d. per gall. more than foregoing rates.

Methylated resin finish is 3d. per gall. over and **methylated shellac finish** is 1s. per gall. over the prices for pyridinised methylated spirit.

Terms:—Delivered free and carriage paid on returned empties; net cash one month.

Crude Drugs

ANISEED (STAR).—Chinese is 120s. per cwt., c.i.f., for shipment. Spot supplies (if available), 135s.

ANTIMONY.—English 99.6 per cent. is £222 10s.; 99 per cent., £210 per ton.

ARECA NUTS.—Supplies difficult at origin and on the spot.

ASAFOETIDA.—Persian block is scarce on the spot with prices nominal.

BALSAMS.—Quotations (per lb.) are:—**CANADA:** 24s. on the spot. **COPAIBA,** 7s. 9d. to 11s., duty paid. **PERU,** 10s., duty paid. **TOLU** (genuine as imported) is 27s. 6d.; B.P. is 17s. 6d., spot.

BELLADONNA.—LEAVES are 2s. 6d. per lb. on the spot and c.i.f. **ROOT,** 1s. 10d.

BENZON.—Sumatra block on the spot is from £25 to £30 per cwt. No. 1 for shipment is £23 5s., c.i.f. Almonds, 15s. per lb., c.i.f.

BISMUTH METAL.—Minimum rate is 16s. per lb.

BUCHU.—Spot supplies are from 7s. to 7s. 3d. per lb.

CARDAMOMS.—Aleppy greens for prompt shipment are 14s. 6d. per lb., c.i.f., with new-crop, September-October at 13s. 6d., c.i.f. Spot is 14s. 6d.

CASCARA SAGRADA.—American 1955 peel is from 275s. to 295s. per cwt., duty paid. New-crop for shipment is about 255s., c.i.f.

CHERRY BARK.—Thin natural is from 1s. 7½d. per lb., duty paid, and rossed, 2s., on the spot.

CINNAMON.—Ceylon for shipment (c.i.f.) per lb., 0000, 7s. 0¼d.; 000, 6s. 11¼d.; 00, 6s. 10¼d.; O, 6s. 8¼d.; firsts, 6s. 3¼d.; quillings, 4s. 1d.; chips, 9¼d. to 10¼d.

CLOVES.—Zanzibar on the spot are now quoted at 3s. 4d. per lb.; prompt shipment, 3s. 2¼d., c.i.f. Madagascar, 2s. 11¼d., c.i.f.

ERGOT.—Portuguese is dearer at 7s. 9d. per lb., c.i.f., for prompt shipment; East European, no offers spot or forward.

GENTIAN.—French is offered on the spot at 185s. per cwt.

GINGER.—African on the spot is 255s. per cwt., with August shipment at 230s., c.i.f. Jamaican No. 3 for shipment no offers; spot, No. 3, 600s.

HENNA.—Indian is now 72s. 6d. per cwt. g/n on the spot.

HONEY.—Austrian light-amber is 145s. and medium-amber, 140s.; Argentine, 145s.; Jamaican, 145s. to 150s., all per cwt., on the spot.

IPECACUANHA.—(Per lb.). Colombian, 43s. 6d., spot, and 41s., c.i.f. Matto Grosso, 42s. 6d., spot, and 40s., c.i.f. Nicaraguan, spot, unobtainable; shipment firm at 57s. 6d., c.i.f.

KOLA NUTS.—Jamaican are offered at about 8d. per lb., spot, and African, 5½d.

LANOLIN.—In 1-ton lots the price of ANHYDROUS, B.P., is from 160s. to 165s. per cwt.; 5-cwt. lots from 162s. to 167s. per cwt. HYDROUS, B.P., is from 140s. to 142s. for similar quantities. All in drums, carriage paid, U.K.

LIQUORICE.—Natural root: Quotations include Anatolian 47s. 6d.; Russian, 50s.; Persian, 35s. Chinese, 42s. 6d. per cwt. Block juice is 200s. per cwt. for the Anatolian and 185s. for Chinese and British on the spot. Italian stick from 310s. to 476s. per cwt., duty paid.

LYCOPodium.—Supplies of Russian triple-sifted are 7s. 3d. per lb. in bond.

MENTHOL.—Chinese, steady, 51s. 6d. per lb., duty paid. August-September shipment, 45s., c.i.f. Brazilian, spot, very short, 44s. 6d., duty paid; shipment prices obscure.

MERCURY.—Per flask (76-lb.) £83 15s. on the spot.

ORANGE PEEL.—West Indian bitter quarters are 11d. to 1s. per lb.; Spanish, 1s. 1d. to 1s. 3d.

PAPAIN.—Firm. Spot East African is 24s. per lb. for grade 1.

PEPPER.—Market firmer. White Sarawak is 2s. 7d. per lb. on the spot, with shipment about 2s. 6d., c.i.f. Black Sarawak is offering on the spot at 1s. 11d. per lb.; August shipment, 1s. 9¼d., c.i.f. Black Malabar, 270s. per cwt. on the spot; August shipment, 232s. 6d., c.i.f.

PIMENTO.—Spot is 590s. per cwt. with forward at 540s., f.o.b.

PODOPHYLLUM.—*Emodi* is quoted at 145s. per cwt. ex wharf. Indication for new-crop *Peltatum*, 475s., landed.

PSYLLIUM.—Indian seeds are quoted at 1s. 1d. per lb., on the spot.

QUASSIA.—Chips are 42s. 6d. per cwt. on the spot.

QUILLAIA.—Spot offers of bark are about 205s. per cwt. with shipment, 185s., c.i.f.

RAUWOLFIA.—*Serpentina* is offered from 4s. 3d. to 4s. 9d., landed terms, as to origin. *Vomitaria* is 2s. 6d., landed.

SARSAPARILLA.—Jamaican native red on the spot is 3s. 3d. per lb., and for shipment, 2s. 10d., c.i.f.

SEEDS.—(Per cwt.). **ANISE.**—Tunisian, 210s. in bond; Spanish, 245s., duty paid. **CARAWAY.**—Small business reported in Dutch at 130s., duty paid. **CELERY.**—Indian is dull with sellers at 140s., spot. **CORIANDER.**—Market unchanged. Spot, Moroccan, 90s.; Danubian or Rumanian, 62s. 6d.; splits, 55s.; and Bulgarian smalls, 52s. 6d., all duty paid. **CUMIN.**—Spot, Cyprian, 127s. 6d. to 130s. quoted. Moroccan, 132s. 6d., duty paid; Iranian, 125s., duty paid. **DILL.**—Indian quoted at 65s., spot. **FENNEL.**—Indian is now 92s. 6d. spot. **FENUGREEK.**—Sellers quoting Indian at 68s. spot and Moroccan at 67s. 6d., duty paid. **MUSTARD.**—English 65s. to 77s. 6d., according to quality.

SENEGA.—Spot is 18s. 6d. per lb. Shippers asking about 18s. 6d., c.i.f.

SENNA.—*Tinnevely* LEAVES (per lb.): Prime bold, 1s. 4¼d.; prime No. 3, 8d.; f.a.q., No. 3, 7½d. all on the spot; PODS, f.a.q., new-crop, 7½d., c.i.f. Manufacturing, 6¼d., spot. *Alexandrian* manufacturing pods, 10d.; and hand-picked from 3s. 6d. to 7s., as to quality.

SLIPPERY ELM.—Grinding quality bark is 2s. 6d. per lb.

SQUILL.—White is offered on the spot at 57s. to 62s. 6d.

STRAMONIUM.—Indian LEAVES are 70s. per cwt., and European 80s. on the spot.

STROPHANTHUS.—*Kombé* on the spot is 6s. 9d. per lb. for the 100 per cent.; *Gratus* is 12s.

TONQUIN BEANS.—Para frosted are 6s. 6d. per lb. on the spot.

TRAGACANTH.—No. 1 ribbon is £170 to £175 per cwt.; No. 2, £140 to £145.

VALERIAN ROOT.—Indian on the spot is 140s. per cwt. Dutch, 182s., c.i.f.

VANILLIN.—Rates (per lb.) are now:—5-cwt. lots, 27s. 6d.; 1-cwt., 27s. 9d.; 56-lb., 28s.; smaller quantities, 28s. 3d.

WAXES.—**BEES'**—Dar-es-Salaam, August-September shipment, 635s., c.i.f., spot, 625s.; Sudanese, 570s., duty paid, and 525s., c.i.f.; Abyssinian, spot 570s., duty paid, shipment, 530s., c.i.f. **CANDELLA.**—Shipment, 550s. per cwt. landed; spot is 550s. **CARNAUBA.**—Fatty grey, spot, 580s. per cwt.; for shipment, 570s., c.i.f. Prime yellow, spot, 1,230s.; for August-September shipment, 1,200s., c.i.f. (per cwt.).

WITCH HAZEL LEAVES.—Spot supplies are 2s. 3d. per lb.; August shipment, 2s. 1d., c.i.f.

Essential and Expressed Oils

ALMOND.—B.P. imported oil is 10s. 6d. per lb.; British, 14s. 6d. to 15s.

AMBER.—Rectified on the spot quoted at from 1s. 6d. per lb.

ANISE.—Chinese, 14s. 6d. per lb., spot; 13s. 7¼d., c.i.f.

BAY.—West Indian is 10s. 6d. per lb. on the spot.

ANGELICA.—From seed, 285s. per lb.

BERGAMOT.—Spot quotations are now 68s. per lb.

BIRCH TAR.—Rectified is about 14s. per lb. in 1-cwt. lots.

BOIS DE ROSE.—Brazilian is 25s. per lb. on the spot and 23s. 6d., c.i.f.

CARAWAY.—English-distilled is offered at 55s. and imported from 27s. 6d. to 28s. 6d. per lb., duty paid.

CARDAMOM.—Price per lb. is from 360s. for English-distilled and from 265s. to 270s. for imported.

CASTOR.—Higher. Minimum 2-ton lots of pharmaceutical quality £146 per ton, naked ex mill, August–September delivery.

CINNAMON.—From quillings, English-distilled is quoted at 30s. per oz. Other B.P. oils available down to 90s. per lb. Ceylon leaf, crude, 14s. 6d.; rectified, 27s. 6d. per lb., spot.

CITRONELLA.—Ceylon, afloat 6s. 6d. per lb., c.i.f.; shipment, 5s. 9d., c.i.f. Formosa for shipment is from 5s. 10½d. to 6s. 4½d. as to position.

COD-LIVER.—B.P. is 11s. 6d. per gall. in charged returnable drums. Veterinary, is from 9s. 6d. per gall.

DILL.—B.P. English-distilled oil is quoted at 60s. per lb. Imported oils are from 35s. per lb.

FENNEL.—Spanish sweet on the spot is quoted from 12s. per lb. with Russian at 18s. 6d.

GARLIC.—English is 55s. per oz.

GERANIUM.—Bourbon is from 92s. 6d. per lb. on the spot and Algerian, 77s. 6d.

GINGER.—English-distilled oil is 205s. per lb. Imported oils are 165s. for Jamaican and 87s. 6d. for Chinese, duty paid.

GRAPEFRUIT.—Jamaican is 16s. 6d. per lb.; South African, 12s.

HYDROCARPUS.—Spot is about 2s. 2d. per lb.

JUNIPER BERRY.—Czechoslovakian oil (B.P.C.), 15s. 6d. per lb. and Jugoslavian, 14s. on the spot. English-distilled is 155s.

LEMONGRASS.—Spot is 12s. 6d. per lb.; near shipment, 11s. 9d., c.i.f.

LIME.—Supplies of West Indian distilled are offered from 35s. to 36s. per lb. on the spot.

NUTMEG.—English distilled is nominally 120s. per lb.; imported, 52s. 6d.

ORIGANUM.—Sellers of 75 per cent. phenols at 13s. 6d. per lb.

OTTO OF ROSE.—Bulgarian is 450s. and Turkish, 190s. per oz.

PALMAROSA.—East Indian, 60s., spot; 55s., c.i.f.

PATCHOULI.—Penang is 38s., duty paid, and 32s., c.i.f.

PETITGRAIN.—Paraguay, spot, 24s. 6d. to 25s. 6d. per lb., as to brand.

PIMENTO.—English-distilled berry is 175s. per lb.; imported, 72s. 6d. Rectified leaf, 27s. 6d. per lb. for small lots.

PINE.—*Pumilionis* on the spot is from 16s. per lb.; *syvestris*, 25s. Siberian (*abietis*), 12s. 6d. to 15s.

ROSEMARY.—Spanish oil on the spot is from 5s. 6d. per lb., duty paid.

RUE.—Spot offers for small lots are now 17s. 6d. per lb.

SAGE.—Spanish is offered at from 8s. per lb. and Dalmatian, 30s.

SASSAFRAS.—Brazilian is 4s. 3d. per lb. duty paid.

SPEARMINT.—Offers of U.S.P. oil are from 31s. to 31s. 6d. per lb. on the spot.

TANGERINE.—Sicilian is from 38s. to 48s. per lb., on the spot.

THYME.—Spot is 8s. 6d. per lb. for the B.P.C.

UNITED STATES REPORT

NEW YORK, AUGUST 21: Demand for BORAX and BORIC ACID returned sharply after an unusually quiet period last month. The firmer silver market price brought a rise in SILVER NITRATE to 61½ cents an ounce, up three-quarters of a cent. RESERPISE showed a further drop to \$3.75 per gm. (down 25 cents). The spot market for CRUDE DRUGS continued to move at a steady rate, with some small collections and

late crops spurring interest. HYDRASTIS is tending to move upward in the face of depleted stocks. Higher per lb. among the ESSENTIAL OILS were NUTMEG at a nominal \$8.50 (up 25 cents) and CADE, at 25 cents (up 2½ cents). Lower per lb. were Formosan CITRONELLA at \$1.45 (down 20 cents); Ceylon CITRONELLA, 88 cents (down two cents); and imported MANDARIN, \$7.50 (25 cents).

MITCHAM HERB CROPS

THE following crop report has been received from the Mitcham distillery of W. J. Bush & Co., Ltd.:—

PEPPERMINT.—The plants are healthy and in good condition. A period of sunshine is required between now and harvest.

LAVENDER.—The plants themselves are in good condition but the acreage planted is again small.

CHAMOMILE.—A very small acreage is now being planted and it is difficult to estimate what the result will be.

WORLD TRADE

Indian Drug Delegation.—A ten-man pharmaceutical delegation is leaving India shortly to visit the Soviet Union, East and West Germany, Switzerland and Italy to study the pharmaceutical and allied industries in those countries. On its return the delegation will make recommendations to the Indian Government on the future development of the Indian pharmaceutical industry.

Uruguayan Foreign Trade System.—The Uruguayan Government has issued a decree, effective from August 4, establishing a complex system of exchange rates for imports and exports in an effort to restore equilibrium to the country's foreign trade. Imports of essential raw materials, including crop chemicals, are being granted an exchange rate of 2:1 pesos per dollar and will no longer require an import permit.

No U.S. Tariff Increase.—President Eisenhower has decided that imports of PAS and its salts are not harming United States industry producing the same product and that there is no reason to increase tariffs. On June 14 the tariff body was equally divided on whether imports were harming the principal American producer, Sumner Chemical Co., New York City, and the President had to decide which view to accept (see *C. & D.*, July 7, p. 16).

New Mexican Chemical Company.—The Montrose Chemical Corporation of California is to manage a new Mexican chemical company, Montrose Mexicana S.A. The new company is being financed by \$2,000,000 in United States and Mexican capital. In addition, *Banque Nationale pour le Commerce et l'Industrie*, Paris, has agreed to grant a \$2,000,000 loan, to be guaranteed by *Nacional Financiera*, Mexican Government Investment Agency. The Montrose Chemical Corporation is to receive a substantial stock interest in the new firm. Initial operation will be construction of a mercury cell chlorine caustic soda plant and a monochlorobenzene, chloral and DDT plant in the vicinity of Irapuato.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," August 1

For photographic apparatus and instruments (9) EDIXAFLEX, EDIXASCOPE, EDIXATRON, EDIXETTE, and EDIXAMAT, 753,746-50, by North Staffs Photographic Services, Newcastle-under-Lyme, Staffs.

For copying and enlarging apparatus, all for photographic purposes (9)

AGFAGRAPH, 752,505, by Agfa, A.G., für Photofabrikation, Leverkusen, Germany.

For feeding bottles (10)

FEED-TAINER, 754,113, by Lewis Woolf, Ltd., Birmingham, SUBA-MINIFEEDEE, 749,579, by William Freeman & Co., Ltd., Barnsley, Yorks.

For hair pins and hair curlers (26)

Device of the wording FLEXI-GRIP, B746,945, by Gaylord Products, Inc., Chicago, U.S.A.

From the "Trade Marks Journal," August 8

For sodium borate (1)

RASORITE, 746,510, by Borax Consolidated, Ltd., London, S.W.1.

For all goods (1)

EMULVIN, 749,096, by Farbenfabriken Bayer, A.G., Leverkusen, Germany.

For chemical products containing wax for use in industry (1)

ABRILWAX, 754,108, by Abril Corporation (Gt. Britain), Ltd., Bridgend, Glam.

For bleaching preparations (3)

Device of word FLICK, 736,899, by H. & R. Young (Supplies), Ltd., Harrow, Middlesex.

For powdered common soap (3)

ECLIPSE, 753,455, by Thomas Hedley & Co., Ltd., Newcastle-on-Tyne.

For preparations and substances for cleaning, polishing, and scouring, and soaps (3)

LAUNETTE, 753,605, by Kelvex, Ltd., London, E.C.2.

For bath salts (not medicated) for toilet purposes (3)

BISKALITE, 752,984, by Andomia Products, Ltd., Bradford, Yorks.

For deodorants (5)

Device of the wording COOPERIN WINDMILL, 751,660, by Cooper, McDougall & Robertson, Ltd., Berkhamsted, Herts.

For pharmaceutical preparations, etc. (5)

SEDROX, 753,191, by John Richardson & Co., Leicester, Ltd., Leicester, TRONOLEN, 752,224, by Abbott Laboratories, Chicago, U.S.A. TRANSYL, 753,240, by Bayer Products, Ltd., Kingston-on-Thames, Surrey, OVRIZO, 753,926, by Vepal Laboratories, Ltd., Hoddesdon, Herts, RICHTEPAR, 754,385, by Gedeon Richter (Great Britain), Ltd., London, N.W.5, EXTENDINE, 752,437, by Victoria Laboratories, Ltd., London, W.C.2.

For all goods (5)

PLUTEN, 753,235, SULDIM, 753,237, MYTELASE, DEFORMAIR, 754,725-26, by Bayer Products, Ltd., Kingston-on-Thames, Surrey, EF-NEOMIN, 753,831, by Glaxo Laboratories, Ltd., Greenford, Middlesex.

For preparations containing choline for use as nutritional aids by addition to feeding stuffs for animals and poultry (5)

MIDCHOLINE, 753,813, by Ward, Blenkinsop & Co., Ltd., London, W.C.1.

For preparations for protecting and preserving plants, insecticides, fungicides, vermin-destroying preparations, moth-repelling and destroying preparations, disinfectants, etc. (5)

WEEKI, 753,812, by J. R. Geigy, S.A., Basle, Switzerland.

For photographic apparatus and instruments (9) MIKROMA, 752,890, by Meopta, Narodni Podnik, Plovdiv, Czechoslovakia.

For hair combs for personal use and having ball-pointed teeth (21)

Device of the wording GROOM-MASTER, B749,790, by Call Bond and Mortgage Co., Sioux City, U.S.A.

PRINT AND PUBLICITY

Advertising Campaigns

D. & W. GIBBS, LTD., Hesketh House, Portman Square, London, W.1: Gibbs' S.R. tooth-paste. In national Press and main national magazines.

A. & R. SCOTT, LTD., 10 Victoria Road, London, N.W.10: Scott's Twin-pack. In women's leading journals.

MANCHESTER STATION

SUNDAY, September 2: Zoflora.

THURSDAY, September 6: Zoflora.

SATURDAY, September 8: Cussons' cold cream soap (at 10.45 p.m.); Fennings' cooling powders, mother's balm, rheumatic tablets (between 2.45 and 3.30 p.m., and 10.45 and 11 p.m.).

ON two days each week: Astral cream.

Price Lists

GENATOSAN, LTD., Loughborough, Leics: Retail, August. Pp. 4.

YARDLEY & CO., LTD., 33 Old Bond Street, London, W.1: Retail, September. Pp. 16.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Sunday, August 26

SHEFFIELD PHARMACY CLUB, Harthill Moor Farm at 3.30 p.m. Picnic and games. Route via Bakewell, Haddon Hall, Picory Corner, Alport by Youlgreave, turn left in Alport on road to Elton. Look out for "S.P.C." sign. (The farm is marked on the O.S. 1-in. map, sheet 111.)

Advance Information

NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, Gresham Hotel, Dublin, on Wednesday, September 5, at 9 p.m. Informal meeting open to all women pharmacists attending the British Pharmaceutical Conference meeting.



Cut-out showcard for Inecto crème (overall size 6½ x 8½ in.) and embossed glazed showcard in silver and buff on blue (size 4 x 7 in.) available from Rapidol, Ltd., 27 Dover Street, London, W.1.

Medical Propaganda

Manufacturers' leaflets, folders, booklets, etc., directed to doctors but available to pharmacists. CIBA LABORATORIES, LTD., Horsham, Sussex: "Ecolid for the Treatment of Hypertension," "Doriden for Insomnia" (12-p. booklets).

EVANS MEDICAL SUPPLIES, LTD., Speke, Liverpool, 19: "Ergo-Rondase," "Heprona," "Hepatex Oral" (4-p. folders); "Dindevan" (8-p. folder), "Vade-Mecum on Anticoagulants" (6-p. folder); "Nobecutane," "Anticoagulant Therapy," "Pularin" (12-p., 16-p., 20-p. booklets).

MERCK-SHARP & DOHME, LTD., Hoddesdon, Herts: "Steroid Formulations and Indications," "Hydroderm in Skin Inflammation" (4-p. folders); "Mephyton Countermeasure for Hypoprothrombinaemia," "Cremomycin for Specific and non-Specific Diarrhoeas" (6-p. folders).

ORGANON LABORATORIES, LTD., Brettenham House, Lancaster Place, London, W.C.2: "Menstragen to induce Menstruation," "Diandrone" (4-p. and 8-p. folders).

PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD., Dagenham, Essex: "Rovamycin" (dosage and indications card, 4-p. folder); "Ansolysen Autonomic Ganglion Blocking Agent," "Vegolysen Ganglion Blocking Agent" (42-p. and 50-p. booklets).

COMMERCIAL TELEVISION

PROGRAMME details are given to enable chemists to put in linking-up displays if they wish. Notice given is as far in advance of the programme date as can be guaranteed by the broadcasting companies.

ALL STATIONS

SUNDAY, September 2: Coty 24 lipstick.

LONDON STATION

TUESDAY, September 4: Coty 24 lipstick.

WEDNESDAY, September 5: Gibbs' S.R. tooth-paste (between 10 and 10.30 p.m.); Zal (between 10 and 10.35 p.m.).

FRIDAY, September 7: Zal (between 10 and 10.35 p.m.).

SATURDAY, September 8: S.Ivikrin.

BIRMINGHAM STATION

WEDNESDAY, September 5: Astral cream (between 8 and 10.30 p.m.); Zal (between 10 and 10.35 p.m.).

THURSDAY, September 6: Gibbs' S.R. tooth-paste (between 8 and 10 p.m.); Astral cream (between 8 and 10.30 p.m.).

FRIDAY, September 7: Zal (between 10 and 10.35 p.m.).

SATURDAY, September 8: Silvikrin; Cussons' cold cream soap (at 10.45 p.m.).

C. & D. WEEKLY LIST OF PRICES

A=Advanced; R=Reduced; I.R.P.=Inclusive Retail Price; *Tax 30 per cent.; †Tax 60 per cent; ‡Tax 90 per cent.

ALLEN & HANBURY, LTD.

	Each	I.R.P.
Haliborange 5 fl. oz.	2 6 R	3 9 A
40 fl. oz.	16 8 R	25 0 A
2 litres	29 8 R	44 6 A

EVANS MEDICAL SUPPLIES, LTD. (from August 20)

	Doz.	
Novo insulin (unmodified) 10 mills	11 2 R	
20 units per c.c. 5 mills	19 9 R	
40 units per c.c. 5 mills	19 9 R	
10 mills	37 4 R	
80 units per c.c. 5 mills	37 4 R	
10 mills	72 1 R	

SAVORY & MOORE, LTD. (from September 1)

Neodrenal tablets 20 mgm.	100	88 0	11 0 R
	250	200 0	25 0 R
all-glass spray	84 0	10 6 A	

(The 25-tablet pack price is unchanged.)

R. SUMNER & CO., LTD.

Vitasac 1 lb.	39 0	4 0 A
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ULTRA-VIOLET, LTD. (from September 1)

	Each	
Cardinal health lamps:—		
models No. 16	103 3	137 8 R
32	111 5	148 6 R
2	132 5	176 6 R
22	179 6	239 6 R

Ncron ultra-vitalux irradiator 73 11 98 6 R

WILLIAM R. WARNER & CO., LTD. (from August 20)

	Each	
Pacatal tablets 25 mgm.		
50	6 0 R	
500	54 2 R	
ampoules 50 mgm. 2 mls		
10	8 4 R	
50	37 6 R	

P.A.T.A. LIST

(Alterations notified this week by the Proprietary Articles Trade Association.)

ADDITIONS TO THE LIST

AYRTON SAUNDERS & CO., LTD.

Bikini sun tan cream†	Doz.	9 6	2 6
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CANNON RUBBER MANUFACTURERS, LTD.

Modern junior soothers	8 9	1 0
nurser feeders	20 0	2 6
nurser feeders in heat resistant glass	28 0	3 6
Ba-By-Byt teething rings	8 0	1 0

NEW PRODUCTS AND PACKS

BOURJOIS, LTD.	
Satin Finish make-up†	4 6
refill†	3 0

CIBA LABORATORIES, LTD.

Apresoline ampoules 20 mgm.	6 x 1 c.c.	15 0
	25 x 1 c.c.	57 0

ELLERN PAPER CO., LTD.

Ozo toilet tissue	1 3
-------------------	-----

EVANS MEDICAL SUPPLIES, LTD.

Novo protamine zinc insulin:—	
40 units per c.c. 5 mills	Doz.
	23 0
10 mills	40 2
80 units per c.c. 5 mills	40 2

R. F. HUNTER, LTD.

Tripodst:—		
Nos. 322		39 7
323		43 4
313		91 0
306		92 8
316		107 0
303		123 0
308		143 6
337		239 10
335		377 5

S. MAW, SON & SONS, LTD.

Hematrix suppositories*	33 0	4 6
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MENLEY & JAMES, LTD.

Cynomel tablets*			
5 microgm.	100	52 8	7 1
		Each	
	1,000	10 6	
25 microgm.	100	78 8	11 1
		Each	
	1,000	52 6	

MERCK-SHARP & DOHME, LTD.

Hydrospray 15 mls	Each	6 0
		9 0

RANK PRECISION INDUSTRIES, LTD.

Miralux movie screen	159 6
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ULTRA-VIOLET, LTD.

ULTRA-VIOLET, LTD.			
Cardinal health lamps:—			
popular models Nos.	45	48 0	64
	44	50 7	67
	41	60 0	80
	42	115 2	153

C. & D. RETAIL AND DISPENSING PRICE LIST

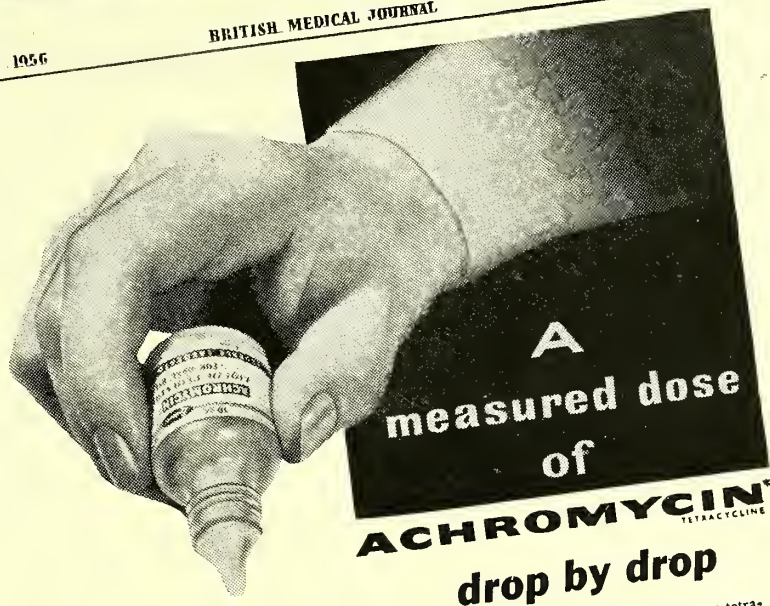
SURGICAL DRESSINGS	1 oz. s. d.	2 oz. s. d.	3 oz. s. d.	4 oz. s. d.	6 oz. s. d.	8 oz. s. d.	1 lb. s. d.
Wool:—(not intercleaved)							
Absorbent cotton, B.P.C.	0 9	1 4	—	1 11	—	3 7	6 11
Absorbent cotton, Hospital	—	—	—	1 4	—	2 5	4 5

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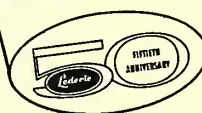
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Administration of small doses of ACHROMYCIN tetracycline is considerably simplified by the introduction of a new improved presentation of the antibiotic—ACHROMYCIN Liquid Pediatric Drops, which is issued in a small pliable plastic bottle with dropper nozzle. The bottle is designed to deliver 5 mg. of ACHROMYCIN in each drop. ACHROMYCIN Liquid Pediatric Drops is a pleasant cherry-flavoured preparation intended particularly for infants and children where palatability is a factor. The dose from the dropper bottle can be conveniently added to milk, water or fruit juices.

ACHROMYCIN^{*} LIQUID PEDIATRIC
TETRACYCLINE



Ready to use—an improvement on the earlier form of ACHROMYCIN Pediatric Drops (requiring suspension in water) which it now replaces. Available in 10 cc. dropper bottles—100 mg./cc. * REGD. TRADE MARK

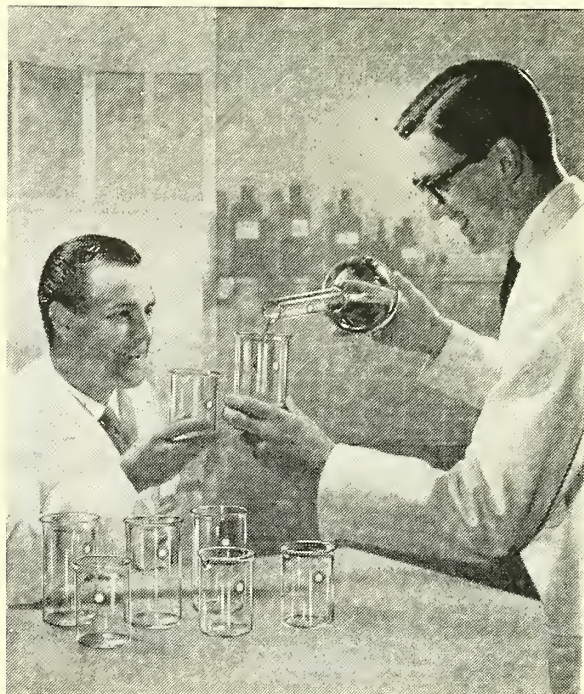


DROPS



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Lederle products are consistently being promoted to doctors in medical journals throughout the world. The above advertisement is currently appearing in leading British medical journals. Literature on the products referred to is available to pharmacists on request.



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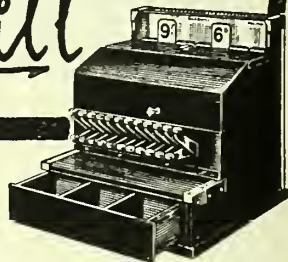
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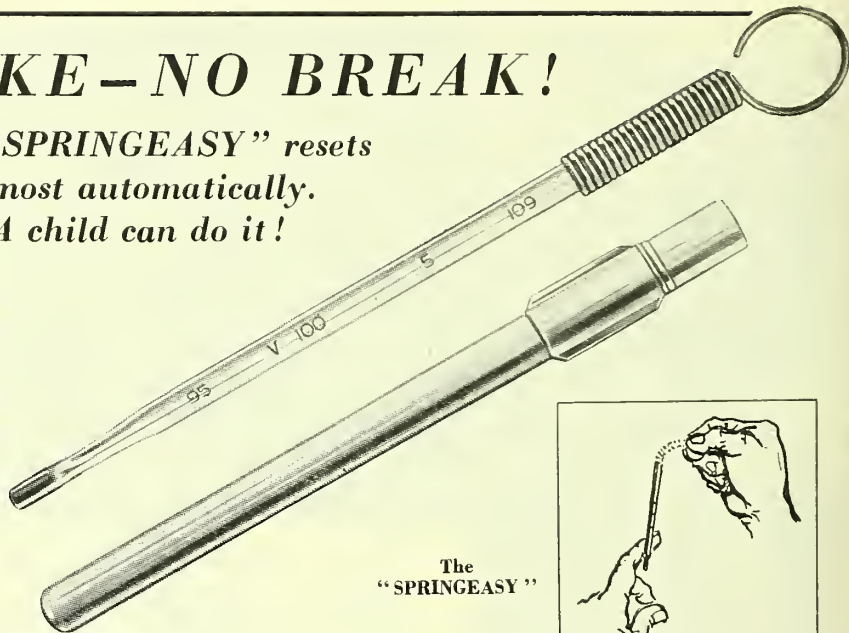
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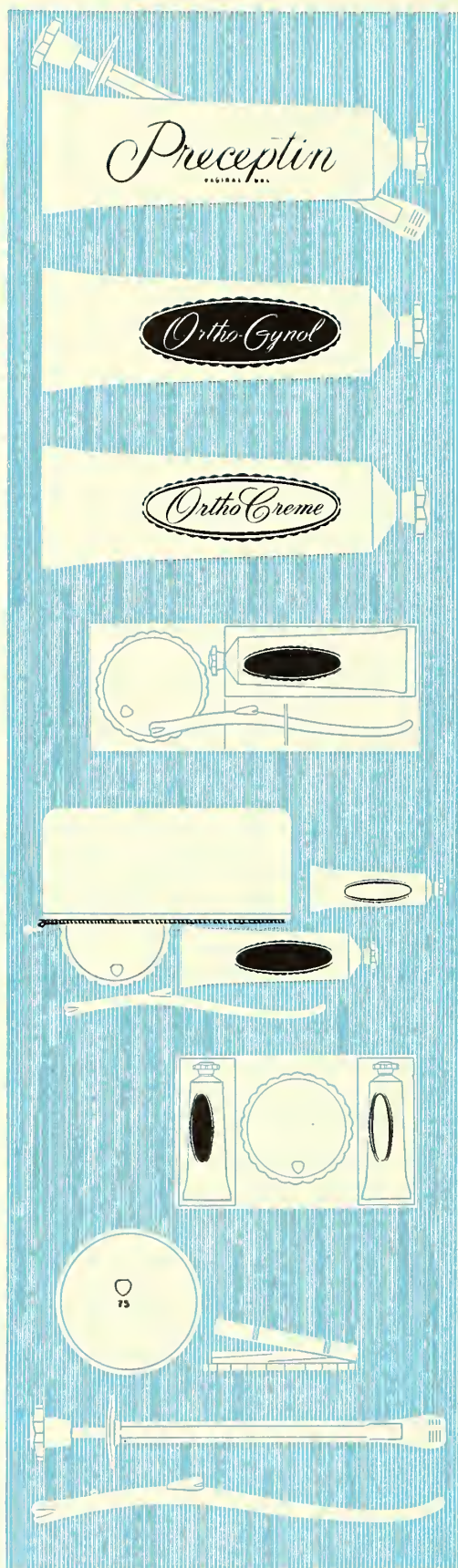


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Ortho Diaphragm in sizes 55 to 95 (in 5 mm. gradations)
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For vaginal application of measured dose (5 cc.) Ortho-Gynol, Ortho-Creme or Preceptin Vaginal Gel

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Individual Introducers to accommodate diaphragms sizes 55 to 95 (in 5 mm. gradations)

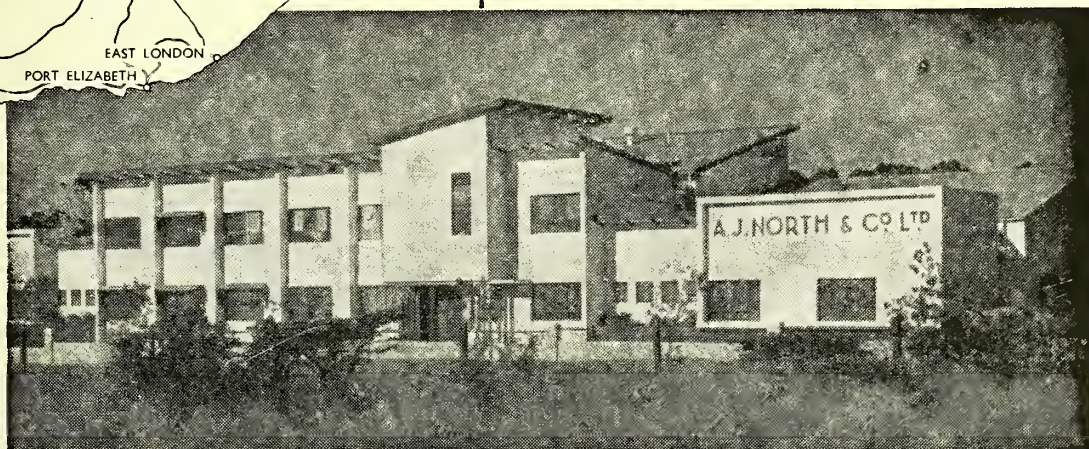


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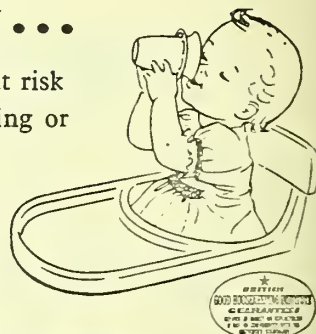
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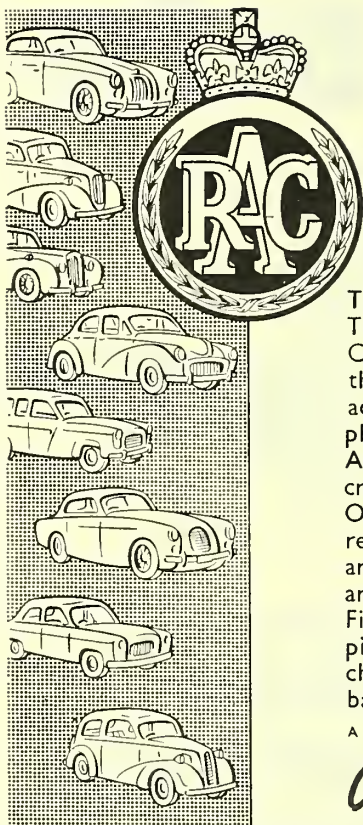
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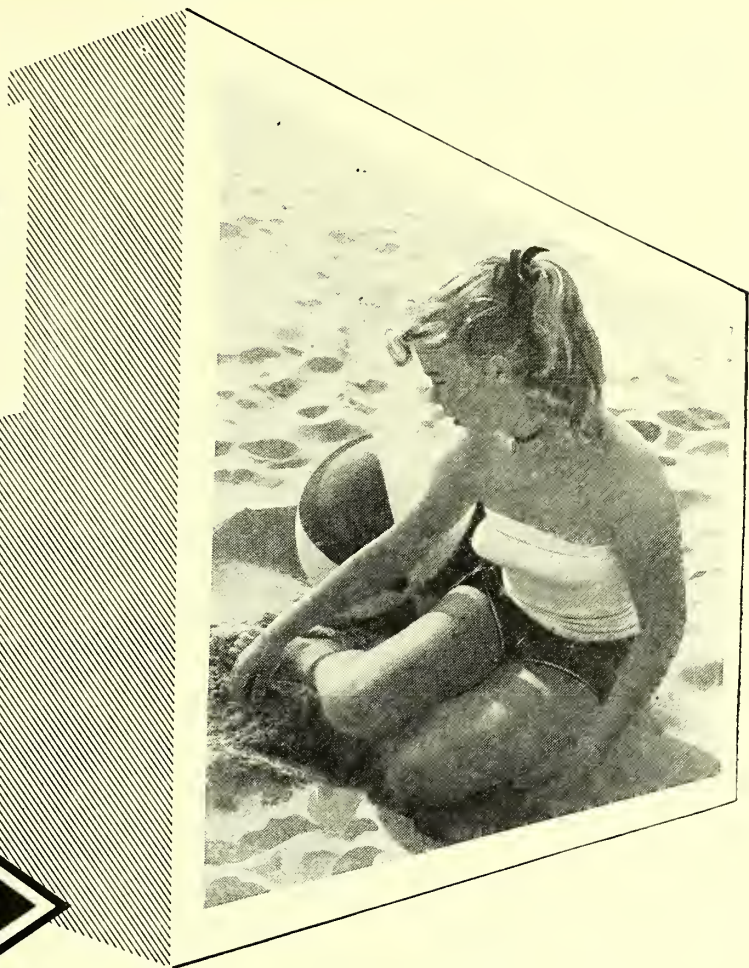
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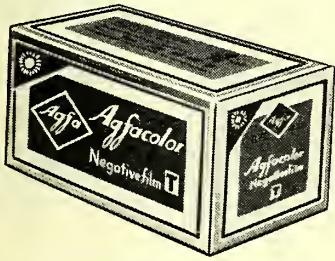
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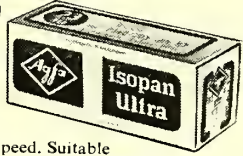
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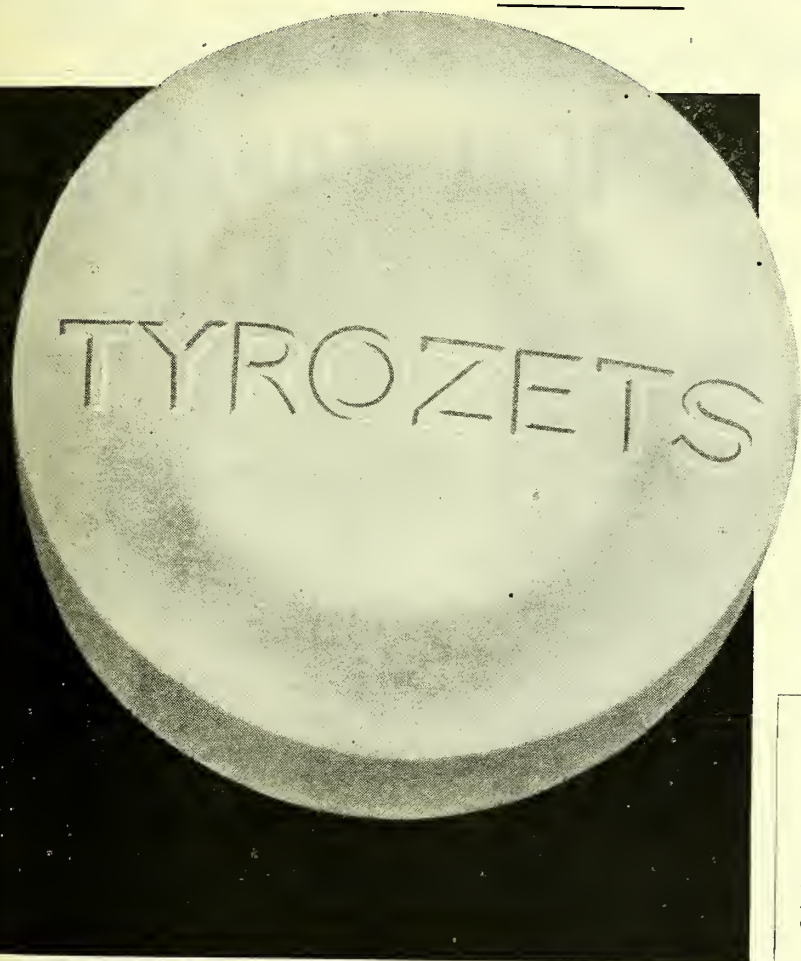
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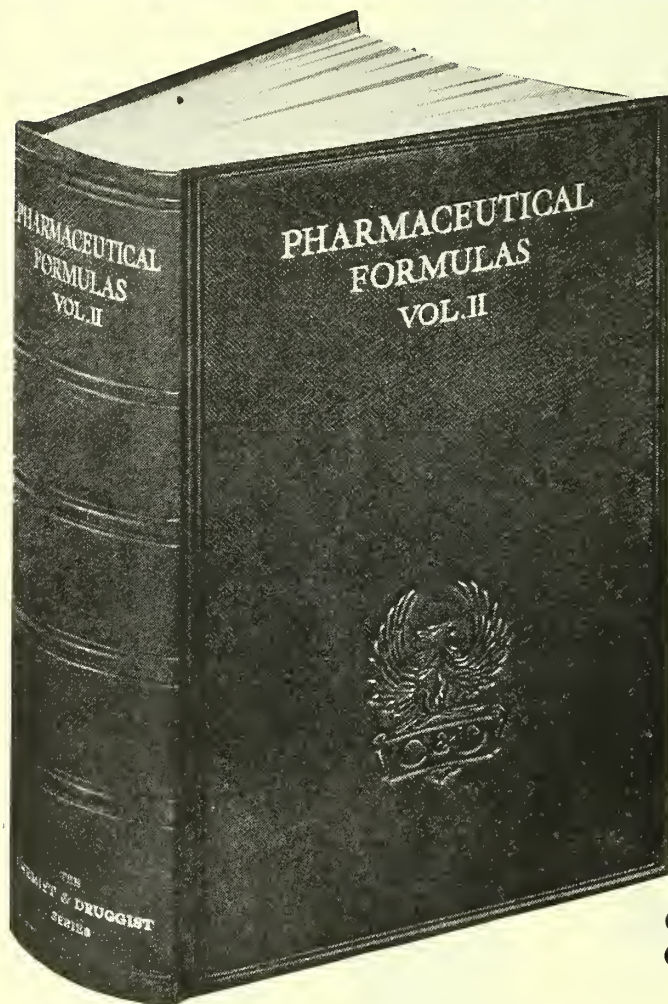
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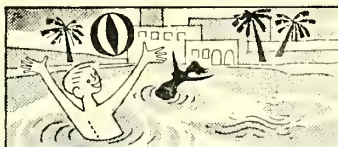
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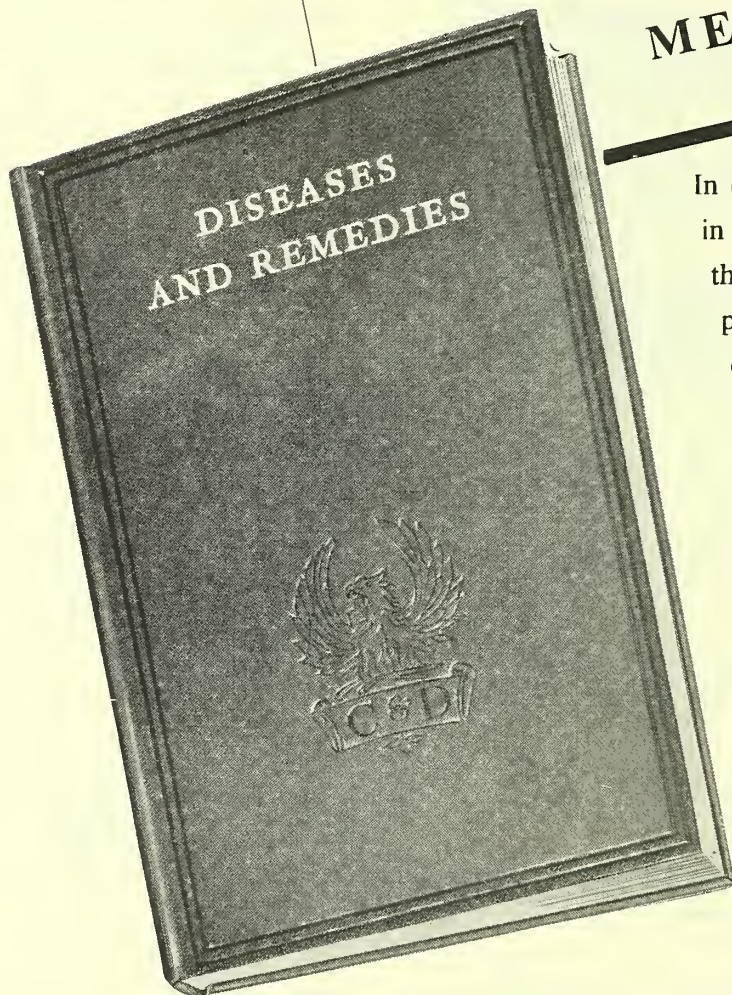
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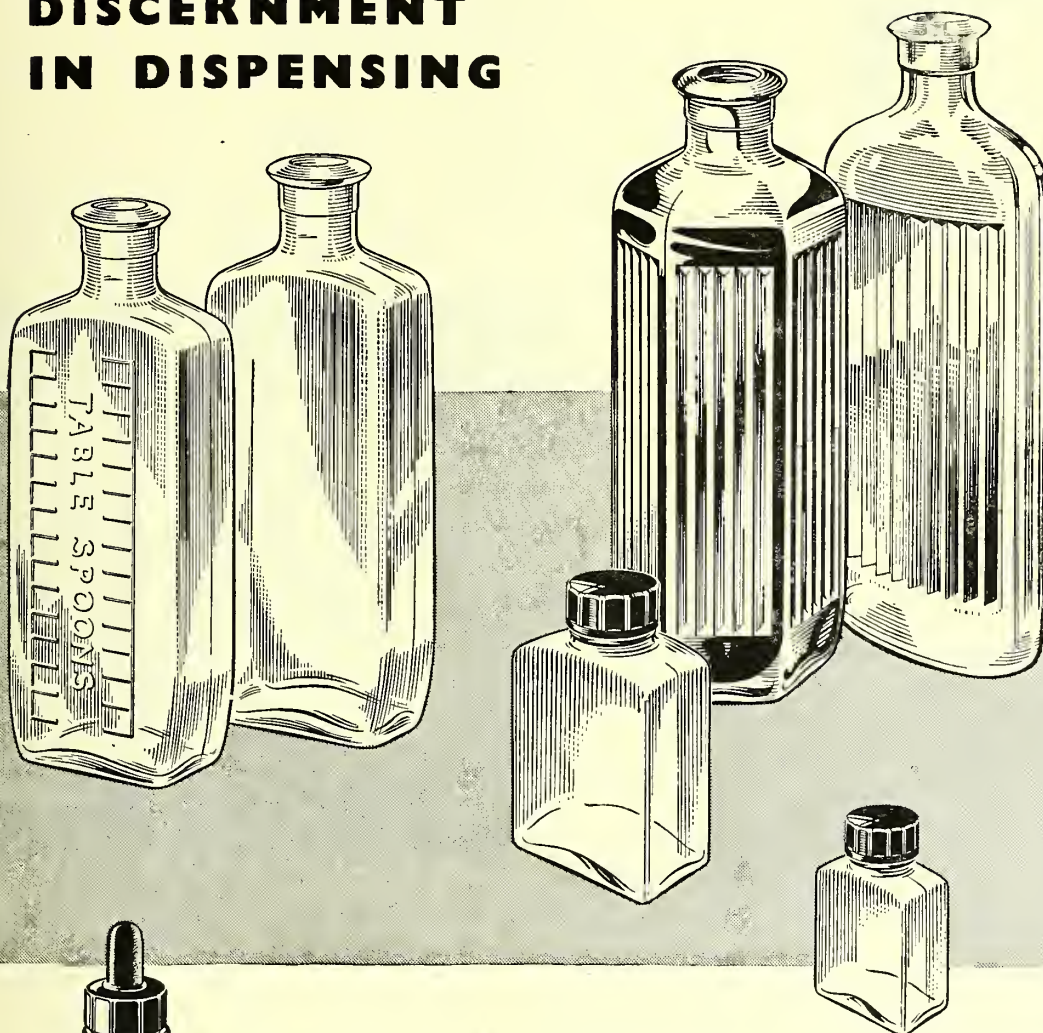
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AGENTS OR REPRESENTATIVES with real selling ability required to expand sales of superbly presented proprietaries, mostly edible, in everyday demand. The products possess every virtue for building goodwill and a good living. Several territories available including London and Home Counties. Liberal commission basis to commence. Applicants must be car owners with strong connections. Please send fullest details including territory, age and selling background. Box C 3954.

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Car provided. Salary and expenses. Pension scheme. Apply giving age and full details of qualifications and experience. Essential also to state salary required. Box C 5584.

MEDICAL REPRESENTATIVES required by London manufacturing chemists to call on doctors, dentists, hospitals and chemists. Experience of medical detailing an advantage but not essential if applicant has a good pharmaceutical background. Applications invited from pharmacists, 25 to 40 years of age, stating experience and salary required. Box C 264.

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PHARMACIST REQUIRED, experienced in formulation and control of pill and tablet production, to take charge of production of small tablet manufacturer in S. London. Applicants should give full details of experience and salary required. Apply to Box C 5599.

PRICING/INVOICE CLERK required by manufacturing pharmaceutical chemists in their modern offices at Watford. Five-day week. Apply: C. J. Hewlett & Son, Ltd., King George's Avenue, Watford. Gadebrook 4401. C 5595

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REPRESENTATIVE, Progressive position vacant for man capable of demonstrating revolutionary method of bandaging to medical and nursing staff and selling to hospital buyers. Must have energy, ambition and personality and be fully mobile for travelling throughout the North-west and Yorks. Box No. 736, Smith's Advertising Agency, Ltd., 100 Fleet Street, E.C.4. C 5580

SALES EXECUTIVE, William R. Warner & Co., Ltd., require a sales executive for their ethical pharmaceutical products. The successful applicant will be expected shortly to assume the duties of sales manager. Applicants should have had experience of all aspects of medical representation and have a good knowledge of planning and control of this type of work. Commencing salary according to qualification and experience and will be adequate to attract an experienced and enthusiastic executive. The company has a generous, non-contributory pension scheme. Applications, stating age, qualifications, positions held and salary earned should be sent to Director, William R. Warner & Co., Ltd., Power Road, London, W.4. C 556

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C 5587

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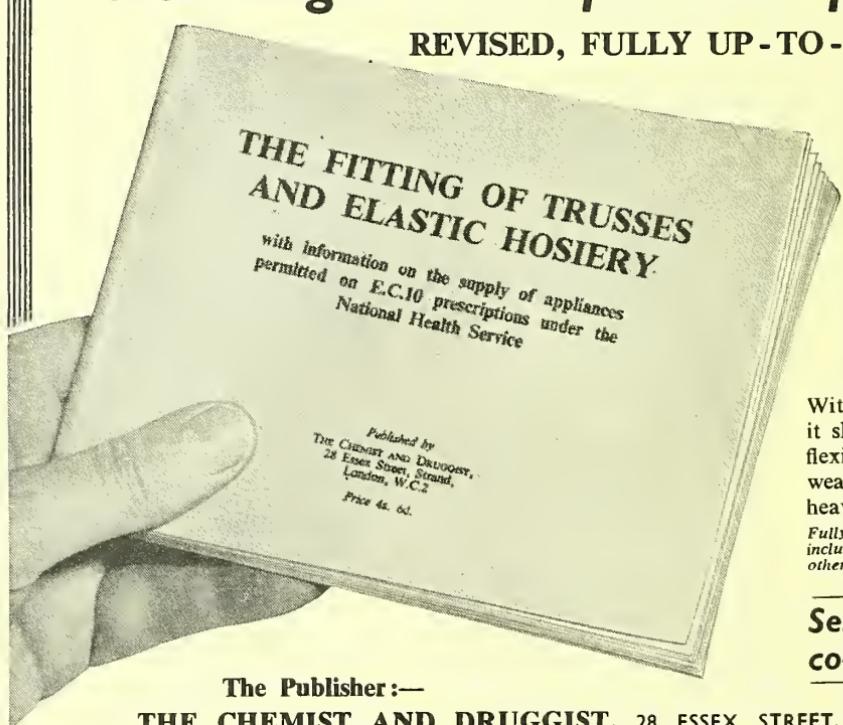
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